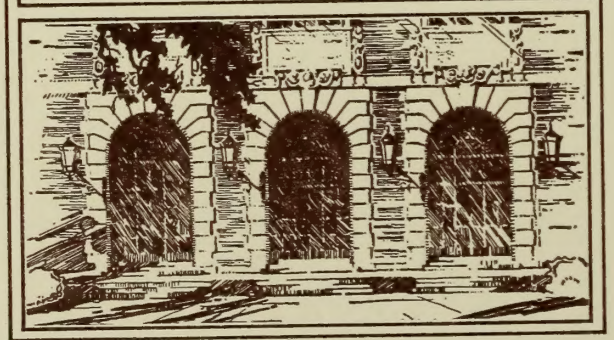
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ENDOCRINOLOGY INDEX

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EXPLANATION OF FORMAT

The period covered by this issue of the bibliography corresponds to the same months of *Index Medicus*. The journal coverage is limited to journals covered by *Index Medicus*, but the *Endocrinology Index* contains additional subject headings that are not included in *Index Medicus*. The *Endocrinology Index* is arranged in seven sections: 1) Table of Contents; 2) Subject Section; 3) Review Section; 4) Method Section; 5) Author Section; 6) Subject Index; and 7) Author Index.

Subject Section

The Subject Section is for the reader interested in recent literature related to certain broad topics and is divided into eight categories (pituitary, thyroid, etc.). The endocrine pancreas has not been included since it is the subject of another recurring bibliography, *Diabetes Literature Index*. Each category has a preconceived hierarchical organization of subject headings. A particular citation may appear more than once if it deals with multiple topics. Each citation to an article contains the full title, first author, and journal reference. If the article is written in a foreign language, the language is indicated. If the citation is to a review article, the number of references is given.

Author Section

The Author Section provides the reader with a list of keywords or index terms assigned to each citation. Each article appears only once. The citations are arranged alphabetically according to first author and are numbered consecutively. These numbers are then in the Author and Subject Indexes to enable the re to identify references with ease. The complete cita (including index terms) are found but only the three authors are listed. Foreign titles appear in original language; these titles have been trans into English in the Subject Section. Following citation are index terms which have been assigne describe the contents of the article. Index terms ap in capital letters; some of these are accompanie subheadings which appear in lower case letters. A isks (*) identify the index terms under which art appear in *Index Medicus*.

Subject Index

All of the index terms assigned to the citations app ing in the bibliography are listed, followed by cita numbers which correspond to the numbers in the Au Section. The Subject Index is included for the venience of the reader who wishes to select art falling in categories of his own conception. For ample, one who is interested in protein binding particular hormone could quickly find whether t were any articles dealing with this subject by deter ing if there were any citation numbers common to two headings "protein binding" and the name of specific hormone.

Author Index

The names of all authors are listed, followed by cita numbers which correspond to the numbers in the Au Section.

DISTRIBUTION

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ENDOCRINOLOGY INDEX

National Institute of Arthritis and Metabolic Diseases

Edited by

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PREFACE

The *Endocrinology Index* is a bimonthly publication of the National Institute of Arthritis and Metabolic Diseases. This selected bibliography which is produced from the National Library of Medicine's Medical Literature Analysis and Retrieval System (MEDLARS), has been initiated to supply those scientists working in the field of endocrinology with a much needed current awareness tool and is intended to help facilitate greater integration of research and clinical efforts in this field.

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EDITORIAL NOTE

The following changes have been made in the Endocrinology Index for 1972:

	ADDITIONS	DELETIONS
CATEGORY 1:	PITUITARY	None
III	Pituitary Hormones Phelypressin	
IV	F-6066 Sulfation Factor	
CATEGORY 2:	THYROID	None
II	Goiter, Nodular	
CATEGORY 3:	ADRENAL	
III	Hydroxycorticosteroids Ketosteroids	V Mandelic Acid
CATEGORY 4:	GONADS	None
III	Contraceptives, Post Coital Norgestrel	
CATEGORY 6:	PARATHYROID AND BONES	None
IV	Renal Osteodystrophy Rickets, Vitamin D Resistant	
CATEGORY 8:	CYCLIC NUCLEOTIDES *	None
	Adenosine Cyclic 3', 5' Monophosphate Guanosine Cyclic 3', 5' Monophosphate	
CATEGORY 9:	APPENDIX Nerve Growth Factor Toxohormones	Cyclic AMP

* Note: This is a new category.

When a new heading is added to the Endocrinology Index which has not been covered adequately since inception of the Index (1968), we will try to provide a review which covers the period corresponding to that covered by the Endocrinology Index . This will not be selected but will be comprehensive. Sulfation factor (somatomedin) is the first attempt to do this, but we hope to do others in the future.

SULFATION FACTOR

The following citations are taken from the 1968 through 1971 issues of INDEX MEDICUS. They are articles which would have been indexed as "sulfation factor" in the ENDOCRINOLOGY INDEX if the term had been available for indexing.

Effect of bleeding on plasma sulfation activity in rats. Boström H, Bozovic L, Bozovic M. Acta Physiol Scand 81:425-7 Mar 71

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Administration of growth hormone to patients with familial dwarfism with high plasma immunoreactive growth hormone: measurement of sulfation factor, metabolic and linear growth responses. Laron Z, Pertzelan A, Karp M, et al. J Clin Endocrinol Metab 33:332-42 Aug 71

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PITUITARY

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II. Disorders of the Pituitary Gland

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SHEEHAN'S SYNDROME

PATHOLOGY

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III. *Pituitary Hormones, Precursors, Metabolites and Synthetic Analogs*

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IV. Related Topics

F 6066

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ISOLATION & PURIFICATION

Demonstration of thyroglobulin-like iodinated proteins in the branchial sac of tunicates. Suzuki S, et al.
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IV. Thyroid Antagonists and Inhibitors

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METHIMAZOLE

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PROPYLTHIOURACIL

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V. Related Topics

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[In favor of resection of the thyroid gland in patients with malignant exophthalmia] Shukhgalter IA. **Eksp Khir Anesteziol** 16:48-54, May-Jun 71 (Eng. Abstr.) (Rus)

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III. Adrenal Cortex Hormones, Precursors, Metabolites and Synthetic Analogs

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Ovarian secretion rates of progesterone and 20 -hydroxy-4-pregnene-3-one in 57 to 70-day old rats. Rubin BL, et al. **Steroids** 18:59-67, Jul 71

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Phase II study of 6 -methylpregn-4-ene-3,11,20-trione (NSC-17256). Ramirez G, et al. **Cancer Chemother Rep** 55:265-8, Jun 71

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V. Adrenal Medulla

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II. Disorders of the Gonads

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BRENNER TUMOR

EMBRYOLOGY

Brenner tumor of the ovary. A clinicopathologic study of 60 tumors in 54 women. Silverberg SG.
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ETIOLOGY

Ovarian tumors: an extension of the Peutz-Jeghers syndrome. Christian CD.
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Primary retroperitoneal seminoma without gonadal involvement: a report of 3 cases. Houston RR, et al.
J Urol 106:841-4, Dec 71
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Gonadoblastoma and dysgerminoma in two siblings with dysgenetic gonads. Talerman A.
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Seminoma in a sheep. Watt DA.
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ABNORMALITIES

Relationship of genotype and degree of chimerism in coat color to sex ratios and gametogenesis in chimeric mice. Mullen RJ, et al. **J Exp Zool** 178:165-76, Oct 71

GRANULOSA CELL TUMOR

Metastatic carcinoma to the breast. Harwood TR.
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COMPLICATIONS

Proliferative endometrial response to theca-granulosa cell tumors. Gusberg SB, et al.
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The effect of chorionic gonadotropin on steroid excretion. Scurry MT, et al. **Arch Intern Med** 128:561-5, Oct 71

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LEYDIG CELL TUMOR

CHEMICALLY INDUCED

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OVARIAN CYSTS

CHEMICALLY INDUCED

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COMPLICATIONS

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[Significance of ovarian cysts in precocious puberty in infancy] Knorr D, et al.
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[Phlegmonous appendicitis in association with a twisted left parovarian cyst and rupture of the left ovary] Nikolaev VI. **Vestn Khir** 106:141, Feb 71 **(Rus)**

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COMPLICATIONS

Differential adrenal and ovarian suppression. Diagnosis and treatment of androgenic disorders in women. Cruikshank DP, et al. **Obstet Gynecol** 38:724-30, Nov 71
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[Urinary secretion of estrogens in cows during the normal sexual cycle and in some pathological cases] Kantchev L.
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[Irreducible ovarial hernia] Howanietz L, et al.
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[Gynecological application of gonadotropin] Kobayashi T. **Jap J Clin Med** 29:1754-60, Oct 71 **(Jap)**

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Late gonadal radiation effects. Jordan SW.
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[Thyroid function in women with functional ovarian failure] Bjoro K.
Tidsskr Nor Laegeforen 91:1804-8, 10 Sep 71 (Eng. Abstr.) **(Nor)**

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[Thyroid function in women with functional ovarian failure] Bjoro K.
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[Clinical case. Bronchial adenoma of carcinoid type

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Nutrition and "the pill". Hodges RE.
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Effect of long-term administration of ovulen on the reproductive organs of inbred strains of mice. Kundapur A, et al. Indian J Exp Biol 9:129-31, Apr 71

ADVERSE EFFECTS

Angiographically verified cerebrovascular disease in young women on oral contraceptives without previous neurological illness. Jacobs GB, et al.
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Nutrition and "the pill". Hodges RE.
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ADMINISTRATION & DOSAGE

Graded sequential therapy in the menopause: a double-blind study. Martin PL, et al.
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Progestational agents and blood coagulation. 3. Menstrual cycle effects. Ambrus JL, et al.
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NORETHYNODREL

Nutrition and "the pill". Hodges RE. J Am Diet Assoc 59:212-7, Sep 71

ADVERSE EFFECTS

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ADMINISTRATION & DOSAGE

[Erythropoietic effect of androstanes. I. Influence of the route of administration and steroid esterification] Duarte L, et al. Rev Invest Clin 23:119-24, Apr-Jun 71 (Eng. Abstr.) (Spa)

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III. Parathyroid Hormone

PARATHYROID HORMONE

Mechanism of the rapid hypercalcemic effect of parathormone: inhibition of bone accretion. Milhaud G, et al. **Rev Eur Etud Clin Biol** 16:451-4, May 71

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III. Neuroendocrine System Hormones, Precursors, Metabolites, and Synthetic Analogs

CORTICOTROPIN RELEASING FACTOR

ANALYSIS

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Molecular Properties of Drug Receptors. A Ciba Foundation Symposium, ed. by Ruth Porter and Maeve O'Conner. London, J. & A. Churchill, 1970. 298 pp. Biomed. QV 38 C482m 1970. ca. $10

Stimulus Properties of Drugs, ed. by Travis Thompson and Roy Pickens. New York, Appleton-Century-Crofts, 1971. 221 pp. Biomed. QV 77 T378s 1971. ca. $13

The Pineal Gland. A Ciba Foundation Symposium. Ed. by G.E.W. Wolstenholme and Julie Knight. London, Churchill Livingstone, 1971. 401 pp. Biomed. WK 350 C482p 1971.

(2) New Journals

Biogenic Amines and Transmitters in the Nervous System

(1) Books and Reviews:

Andreev S, Kobkova I (Role of Catecholamines in Healthy and Diseased Organisms) Moscow, Meditsina, 1970. (Rus) pp.1-296

Benoit J, Kordon C, eds. (Lab. d'Histophysiologie, 4 Ave. Gordon-Bennett, Paris 16e, France) (Neuroendocrinology) Neuroendocrinologie. A national conference of the C.N.R.S., held Sept. 24-26, 1969, in Paris. Paris, Editions du Centre National de la Recherche Scientifique, 1970.(Fr) pp.1-468.

Cooper JR, Bloom FE, Roth RH (Dept. Pharmacology, Yale Univ. School of Medicine, New Haven, CT) The Biochemical Basis of Neuropharmacology. New York, Oxford Univ. Press. 1970. pp.1-220.

Descarries L, Droz B (Dept. Biologie, Univ. Montréal, Montréal, Québec, Canada) (A radioautographic study of catecholaminergic neurons of the central nervous system) Neurones catécholaminergiques du système nerveux central étude radioautographique. In: Neuroendocrinologie. A national conference of the C.N.R.S., held Sept. 24-26, 1969, in Paris, ed. by J. Benoit and C. Kordon. Paris, Editions du Centre National de la Recherche Scientifique, 1970. (Fr) pp.49-55. (Animals: rats. English summary.)

Martinet J, see under category no. 4.

Triggle DJ (Dept. Biochemical Pharmacology, School of Pharmacy, State Univ. New York at Buffalo, Buffalo, NY) Neurotransmitter-Receptor Interactions. London. Academic Press, 1971. p.1-610.

(2) Methods:

Costa E (Lab. Preclinical Pharmacology, National Inst. Mental Health, St. Elizabeths Hospital, Washington, DC) Methods for measuring indolealkylamine and catecholamine turnover rate "in vivo". In: Chemistry and Brain Development, ed. by R. Paoletti and A.N. Davison. New York, Plenum Press. Adv Exp Med Biol 13:157-174, 1971 (Review article with advantages and disadvantages of each method discussed as well as the variability among the methods)

Rost FWD, Ewen SWB (Dept. Histochemistry, Royal Postgraduate Medical School, London W12, England) New methods for the histochemical demonstration of catecholamines, tryptamines, histamine and other arylethylamines by acid- and aldehyde-induced fluorescence. Histochem J 3(3):207-212, 1971 (Data given for hamster adrenal medulla.)

Sharman DF (Agricultural Research Council, Inst. Animal Physiology, Babraham, Cambridge, England) Methods of determination of catecholamines and their metabolites. In: Methods of Neurochemistry, Vol. 1, ed. by R. Fried. New York, Marcel Dekker, 1971. pp.83-127.

(3) Localization:

Ariëns Kappers J (Netherlands Central Inst. for Brain Research, Ijdijk 28, Amsterdam, The Netherlands) Innervation of the pineal organ: phylogenetic aspects and comparison of the neural control of the mammalian pineal with that of other neuroendocrine systems. Mem Soc Endocrinol 19:27-48, 1971

Bern HA (Zoology Dept.,Univ. California, Berkeley, CA 94720) Comparison of the innervation of the pituitary of two euryhaline teleost fishes, Gillichthys mirabilis and Tilapia mossambica, with special reference to the origin and nature of type 'B' fibres. Mem Soc Endocrinol 19:817-822, 1971 ("These observations lead to the conclusion that the type 'B', LGV-containing fibres which innervate the various adenohypophysial cells in these two fishes are monoaminergic in nature, and LGV, as in other adrenergic systems, can be considered as the site of storage of the active monoamine.")

Bern HA (Zoology Dept., Univ. California, Berkeley, CA 94720) The status of neuroendocrine structures in invertebrates analogous with those in vertebrates. Mem Soc Endocrinol 19:843-851, 1971

Dell P, Vigier D (Unité de Recherches Neurobiologiques, INSERM, 300, Bd. Ste-Marguerite, 13-Marseille 9e, France) (Topography of the central aminergic systems) Topographie des systèmes aminergiques centraux. In: Neuroendocrinologie. A national conference of the C.N.R.S., held Sept. 24-26, 1969, in Paris, ed. by J. Benoit and C. Kordon. Paris, Éditions du Centre National de la Recherche Scientifique, 1970. (Fr) pp.2-31. (English summary)

Eränkö O, Rechardt L, Eränkö L, Cunningham A (Dept. Anatomy, Univ. Helsinki, Siltavuorenpenger, Helsinki, Finland) Light and electron microscopic histochemical observations on cholinesterase-containing sympathetic nerve fibres in the pineal body of the rat. Histochem J 2(6):479-489, 1971

Hopkins CR (Dept. Histology, Univ. Liverpool, Liverpool, England) Studies on the innervation of the pars intermedia in Xenopus laevis. Mem Soc Endocrinol 19:823-825, 1971 ("It is therefore concluded that in the amphibian pars intermedia the nerve-fibres containing biogenic amines alone are not directly responsible for the inhibitory control of MSH release.")

Konstantinova MS (Inst. Evolutionary Physiology and Biochemistry, USSR Academy of Sciences, Leningrad, USSR) (The distribution of monoamines in the hypothalamus and hypophysis of vertebrates) Zh Evol Biokhim Fiziol 7(2):213-218, 1971 (Rus)

Lichtensteiger W, see under category no. 10.

Livingston A, Lederis K (Dept. Pharmacology, Univ. Bristol, Bristol, England) Functional ultrastructure of the neurohypophysis. Mem Soc Endocrinol 19:233-262, 1971 (Among other topics treated were the subcellular and neuronal localization of ACh and AChE. In rabbit tissue for these studies.)

Ksche A, Ueck M, Rüdeberg C (Inst. Anatomy, Justus Liebig Univ., 63 Giessen, Germany) Comparative ultrastructural studies of sensory and secretory elements in pineal organs. Mem Soc Endocrinol 19:7-25, 1971

Ksche A (Inst. Anatomy, Justus Liebig Univ., 63 Giessen, Germany) Neuro-anatomical problems of detection and localization of neurones producing neurohormones and releasers, with special reference to the avian hypothalamo-hypophysial system. Mem Soc Endocrinol 19:903-908, 1971

Ellegrino de Iraldi A, Suburo AM (Inst. Anatomía General y Embriología, Facultad de Medicina, Buenos Aires, Argentina) Two compartments in the granulated vesicles of the pineal nerves. In: The Pineal Gland. A Ciba Foundation Symposium, ed. by G.E.W. Wolstenholme and J. Knight. Edinburgh, Churchill Livingstone, 1971. pp.177-195 (Data also given for pharmacological studies. Animals: rat.)

Odríguez, EM (Inst. Histology and Embryology, Faculty of Medical Sciences, Casilla de Correo 56, Mendoza, Argentina) The nervous control of the pars intermedia of an amphibian and a reptilian species. Mem Soc Endocrinol 19:827-837, 1971 ("In summary, it is concluded that in amphibians and probably in mammals, the inhibitory control of the p. intermedia is exerted mainly or exclusively by nerve-fibres which reach the gland, whereas the mechanism controlling the lizard p. intermedia seems to be neurovascular. However, the possibility of a less significant neurovascular element in the control of the non-reptilian p. intermedia should, at present, not be disregarded.")

Pugard C (Lab. Biologie Moléculaire, Collège de France, Place Marcelin-Berthelot, Paris 5e, France) (Distribution and fixation sites of monoamines in the adenohypophysial parenchyma) Distribution et sites de fixation des monoamines dans le parenchyme adenohypophysaire. In: Neuroendocrinologie. A national conference of the C.N.R.S., held Sept. 24-26, 1969, in Paris, ed. by J. Benoit and C. Kordon. Paris, Éditions du Centre National de la Recherche Scientifique, 1970. (Fr) pp.101-108. (Animal tissue: rat and quail. English summary.)

Welsh JH (Biological Labs., Harvard Univ., Cambridge, MA) Phylogenetic aspects of the distribution of biogenic amines. In: Biogenic Amines as Physiological Regulators. Society of General Physiologists' Symposium, Woods-Hole, Massachusetts, 1969, ed. by J.J. Blum. Englewood Cliffs, N.J., Prentice-Hall, 1970. pp.75-94 (Accent on invertebrates.)

(4) Amine Metabolism/Biochemical Studies:

Glowinski J (Lab. Neuropharmacologie Biochimique, Collège de France, Place Marcelin-Berthelot, Paris 5e, France) (Metabolism of monoamines in the central aminergic neuron systems) Métabolisme des monoamines dans les systèmes de neurones aminergiques centraux. In: Neuroendocrinologie. A national conference of the C.N.R.S., held Sept. 24-26, 1969, in Paris, ed. by J. Benoit and C. Kordon. Paris, Éditions du Centre National de la Recherche Scientifique, 1970. (Fr) pp.33-46 (English summary.)

Häggendal J, Dahlström A (Dept. Pharmajology, Univ. Göteborg, Göteborg, Sweden) The functional role of the amine storage granules of the sympatho-adrenal system. Mem Soc Endocrinol 19:651-669, 1971.

Heinmets F (Pioneering Research Lab., U. S. Army Natick Labs., Natick, MA 01760) Computer simulation and analysis of a model system for tryptophan metabolism in pineal gland. Physiol Chem Phys 3(3):247-292, 1971.

Iversen LL (Dept. Pharmacology, Univ. Cambridge, Cambridge, England) Uptake of catecholamines by adrenergic nerves and other tissues. Mem Soc Endocrinol 19:683-703, 1971 (The noradrenergic neurones in the CNS are also treated.)

Keen P, Livingston A (Dept. Pharmacology, Univ. Bristol, Bristol, England) Intraneuronal transport of noradrenaline in the rat. Mem Soc Endocrinol 19:671-682, 1971 (Reserpine, colchicine and vinblastine administered in an attempt to interfere with intra-axonal transport of NA. Data given for brain, heart, and the vas deferens.)

Krass ME, LaBella FS, Shin SH, Minnich J (Dept. Pharmacology and Therapeutics, Univ. Manitoba, 770 Bannatyne Ave., Winnipeg 3, Manitoba, Canada) Biochemical features of the pineal compared with other endocrine and nervous tissues. Mem Soc Endocrinol 19:49-76, 1971 (Data given for carbohydrate metabolism, amino acids and polypeptides, ACh metabolism and monoamines. "In these studies the bovine PB has been compared to the bovine AP, posterior pituitary (PP) and brain cortex.")

artinet J, Flament-Durand J (Lab. Physiologie de la Lactation, CNRZ, 78-Jouy-en-Josas, France) (A study of neurosecretion by incorporation of labelled amino acids) Étude de la neurosécrétion par incorporation d'acides amines marqués. In: Neuroendocrinologie. A national conference of the C.N.R.S., held Sept. 24-26, 1969, in Paris, ed. by J. Benoit and C. Kordon. Paris, Éditions du Centre National de la Recherche Scientifique, 1970. (Fr) pp.315-323. (English summary.)

(5) A. Effects on Other Systems:

eldberg WS (Lab. Neuropharmacology, National Inst. Medical Research, Mill Hill, London, Northwest 7, England) The monoamines of the hypothalamus as mediators of temperature responses. In: Physiological and Behavioral Temperature Regulation, ed. by J.D. Hardy, A.P. Gagge and J. A.J. Stolwijk. Springfield, C.C. Thomas, 1970. pp.493-506

vers RD (Lab. Neuropsychology, Purdue Univ., Lafayette, IN) The role of hypothalamic transmitter factors in the control of body temperature. In: Physiological and Behavioral Temperature Regulation, ed. by J.D. Hardy, A.P. Gagge and J.A.J. Stolwijk. Springfield, C.C. Thomas, 1970. pp.648-666

B. Biochemistry:

gchi SP, Zarycki EP (Psychiatric Research Univ., University Hospital, Saskatoon, Saskatchewan, Canada) Occurrence of phenylalanine hydroxylation in the pineal gland in vivo: possible role of tyrosine and tryptophan hydroxylases. Res Commun Chem Pathol Pharmacol 2(2):370-381, 1971 (Evidence presented that phenylalanine is hydroxylated in vivo by tryptophan hydroxylase which is present in rat pineal. No direct role was noted for tyrosine hydroxylase.)

smann HB, Shea MB, Case KR, Pike GZ (Dept. Pharmacology and Toxicology, Univ. Rochester, School of Medicine and Dentistry, Rochester, NY 14620) L-DOPA inhibits macromolecular synthesis. Physiol Chem Phys 3(3):226-234, 1971 (Animals: rats.)

ang M, Shimizu H, Daly J (National Inst. Arthritis and Metabolic Diseases, National Insts. Health, Bethesda, MD 20014) Regulation of adenosine cyclic 3', 5' -phosphate formation in cerebral cortical slices. Interaction among norepinephrine, histamine, and serotonin. Mol Pharmacol 7(2):155-162, 1971

racevic D, Bjelakovic G, Stefanovic V (Biochemical Inst., Faculty of Medicine, Niš, Yugoslavia) Investigation of the effect of adrenaline on cysteine in some rat tissues in vitro. Iugoslav Physiol Pharmacol Acta 7(1):31-36, 1971 (In brain tissue no increases in the cysteine content were found; however, with other tissues (kidney, liver and spleen homogenates) a highly significant increase did occur.)

Mršulja BB (Inst. Biochemistry, Medical Faculty, Beograd, Yugoslavia) The influence of serotonin on the glycogen concentration in the rat brain in vitro. Iugoslav Physiol Pharmacol Acta 7(1):131-134, 1971 (Both adrenaline and 5HT produced a fall in the glycogen content in brain slices. The changes are significant ($p < 0.01$) in all structures except in the thalamus and hypothalamus. The results also show that 5HT did not act via the adenyl cyclase- cyclic AMP system.)

Shein HM (McLean Hospital Research Lab., Belmont, MA) Control of melatonin synthesis by noradrenaline in rat pineal organ cultures. In: The Pineal Gland. A Ciba Foundation Symposium, ed. by G.F.W. Wolstenholme and J. Knight. Edinburgh, Churchill Livingstone, 1971. pp. 197-212

Weiss B (Lab. Preclinical Pharmacology, National Inst. Mental Health, Washington, DC) Factors affecting adenyl cyclase activity and its sensitivity to biogenic amines. In: Biogenic Amines as Physiological Regulators. Society of General Physiologists' Symposium, Woods-Hole, Massachusetts, 1969, ed. by J.J. Blum. Englewood Cliffs, N.J., Prentice-Hall, 1970. pp. 35-73. (Review article.)

(6) Transmitter Functions:

(7) Electrophysiology:

(8) Interaction of Biogenic Amines, Behavior, Stress and Environment:

Cooper BR, Black WC, Paolino RM (Dept. Psychology, Purdue Univ., Lafayette, IN 47907) Decreased septal-forebrain and lateral hypothalamic reward after alpha methyl-p-tyrosine. Physiol Behav 6(4):425-429, 1971 (The results are consistent with the hypothesis that reward is mediated by a noradrenergic neural substrate. Further, pCPA was found to be without effect, hence 5HT apparently is not involved in this mechanism.)

Hadžović S (Rudolf Magnus Inst. Pharmacology, Medical Faculty, Univ. Ultrecht Ultrecht, The Netherlands) Hypothalamus and central effects of 5-hydroxytryptamine. Iugoslav Physiol Pharmacol Acta 7(1):109-113, 1971 ("With the implantation of 5- hydroxytryptamine into the lateral part of the hypothalamus the following conditions were induced: tremor, gnawing behavior, piloerection, stereotypic movements of the head and forelegs, and in some cases salivation. 5-hydroxytryptophan implanted into the same region provoked the same symptoms but without gnawing behavior."

Ljunggren L, Studies on Seasonal Activity in Pigeons with Aspects on the Role of Biogenic Monoamines in the Endocrine Organs. Lund, C.W.K. Gleerup, 1969. p. 1-69 (Two types of pigeon species studied. Data given for seasonal variations of body weight and the seasonal activity of the liver and thyroids, adrenals, reproductive organs, adenohypophysis and hypothalamus.)

Schreiber RA, see under category no. 11.

(9) Chemical and Drug Effects:

Avner BP - Design, synthesis and testing of some new 1, 4-benzodioxane derivatives on the adrenergic alpha and beta-receptor systems. Ph.D. thesis, State Univ. New York at Buffalo, 1971. 196 p. (Abstract in Dissertation Abst Int (B) 32(3):1737, 1971. Order from University Microfilms, order no. 71-22,087.)

Benkert O, Beckmann H (Max-Planck Inst. Psychiatrie, Neurochem. Abt., Kraepelinstr. 2, 8 München 23, Germany) Disulfiram effect on depression and paranoid score, 5-hydroxyindoleacetic acid and vanillylmandelic acid excretion in urine. Pharmakopsychiat Neuropsychopharmakol 4(2):94-99, 1971 (A study with alcoholic subjects.)

Ernst AM (Rudolf Magnus Inst. Pharmacology, Dept. Medicine, Univ. Utrecht, Utrecht, The Netherlands) Chemical stimulation of central dopaminergic receptors in the striatal body of rats. In: The Correlation of Adverse Effects in Man with Observations in Animals. Proceedings of the European Society for the Study of Drug Toxicity, Uppsala, 1970. Ed. by S.B. De C. Baker. Excerpta Med Int Congr Ser 220:18-23, 1971

Jönsson LE, Lewander T, Gunne LM (Psychiatric Research Center, Univ. Uppsala, Ulleråker Hospital, S-750 17 Uppsala, Sweden) Amphetamine psychosis: urinary excretion of catecholamines and concentrations of homovanillic acid (HVA) and 5-hydroxyindoleacetic acid (5-HIAA) in the cerebrospinal fluid. Res Commun Chem Pathol Pharmacol 2(3):355-369, 1971 ("It was not evident from this study whether the increased catecholamine excretion in amphetamine psychosis could be attributed to the pharmacological actions of amphetamine or to secondary stress effects during the psychotic episode.")

Keen P, see under category no. 4.

Lew GM, Quay WB (Dept. Zoology, Univ. California, Berkeley, CA 94720) Noradrenaline contents of hypothalamus and adrenal gland increased by postnatal administration of 6-hydroxydopamine. Res Commun Chem Pathol Pharmacol 2(6):807-812, 1971 (Regarding the hypothalamus, the authors suggest "that daily systemic administration to the immature animal leads to an increased hypothalamic NA content in adulthood.")

Olive G, Gardey-Levassort C, Lechat P (Inst. Pharmacologie, Faculté de Médecine, U.E.R. Biomédicale des Cordeliers, 21, rue de l'Ecole-de-Médecine, F.75-Paris-06, France) (Turn-over of serotonin in the hypothalamus and brain stem of the rabbit at peak of fever induced by a bacterial pyrogen) Détermination du turn-over de la sérotonine dans l'hypothalamus et le tronc cérébral du lapin à l'acmé de la fièvre provoquée par un pyrogène bacterien. J Pharmacol (Paris) 2(1):61-70, 1971 (Fr) ("At the peak of fever, there was no significant increase in the serotonin turn-over, either in the hypothalamus, or in the brain stem." English summary.)

Pellegrino de Iraldi A, see under category no. 3.

Pepeu G (Dept. Pharmacology, School of Pharmacy, Cagliari Univ., Cagliari, Italy) Drugs interfering with central cholinergic mechanisms. In: Chemistry and Brain Development, ed. by R. Paoletti and A.N. Davison. New York, Plenum Press. Adv Exp Med Biol 13:195-205, 1971 (Review Article.)

Welch BL, Welch AS, Messiha FS, Berger HJ (Maryland Psychiatric Research Center, Baltimore, MD 21228) Rapid depletion of adrenal epinephrine and elevation of telencephalic serotonin by (-)-trans-delta^9-tetrahydrocannabinol in mice. Res Commun Chem Pathol Pharmacol 2(3):382-391, 1971 (No alteration of endogenous levels of brain NA or DA occurred with either tetrahydrocannabinol or cannabinol.)

(10) Interaction with Hormones:

Antón-Tay F (Dept. Neurobiology, Inst. Investigaciones Biomédicas, Univ. Nacional Autonoma, Mexico City, Mexico DF) Pineal-brain relationships. In: The Pineal Gland. A Ciba Foundation Symposium, ed. by G.E.W. Wolstenholme and J. Knight. Edinburgh, Churchill Livingstone, 1971. pp. 213-227 (Animals: rats.)

Fraschini F, Collu R, Martini L. (Dept. Pharmacology, Univ. Milan, Milan, Italy) Mechanisms of inhibitory action of pineal principles on gonadotropin secretion. In: The Pineal Gland. A Ciba Foundation Symposium, ed. by G.E.W. Wolstenholme and J. Knight. Edinburgh, Churchill Livingstone, 1971. pp. 259-278 (Animals: rats.)

Hardeland G, Rensing L, Hardeland R (I. Zoologisches Inst., Univ. Göttingen, Berliner Str. 28, D-34 Göttingen, Germany) (Circadian rhythms of rat hormones. A review) Circadiane Rhythmen von Hormonen bei der Ratte. Eine Ubersicht. J Interdiscipl Cycle Res 2(1):29-54, 1971 (Ger) (In this review article, a section is devoted to biogenic amines, particularly 5HT and their derivatives. English summary.)

Herbert J (Dept. Anatomy, Univ. Cambridge, Cambridge, England) The role of the pineal gland in the control by light of the reproductive cycle of the ferret. In: The Pineal Gland. A Ciba Foundation Symposium, ed. by G.E.W. Wolstenholme and J. Knight. Edinburgh, Churchill Livingstone, 1971. pp. 303-327.

Kordon C (Lab. d'Histophysiologie, 4, Ave. Gordon-Bennett, Paris 16e, France) (Role of the hypothalamic monoamines in the regulation of the adenohypophys Rôle des monoamines hypothalamiques dans les régulations adénohypophysaires In: Neuroendocrinologie. A national conference of the C.N.R.S., held Sept 24-26, 1969, in Paris, ed. by J. Benoit and C. Kordon. Paris, Editions du Centre National de la Recherche Scientifique, 1970. (Fr) pp. 73-88 (English summary.)

eonardelli J (Section d'Histochimie, Lab. d'Histologie, Faculté de Médecine, Lille, 59-France) (Catecholamines and control of anterior hypophysial gonadotropic function) Catécholamines et controle des fonctions gonadotropes antehypophysaires. C R Assoc Anat 145:266-271, 1971 (Fr) (In guinea pigs and rats. English summary.)

chtensteiger W (Pharmakologisches Inst., Univ. Zürich, Gloriastrasse 32, 8006 Zürich, Switzerland) (Variations in catecholamine fluorescence under different neuroendocrine conditions) Variations de la fluorescence des catécholamines dans diverses conditions neuroendocriniennes. In: Neuroendocrinologie. A national conference of the C.N.R.S., held Sept. 24-26, 1969, in Paris, ed. by J. Benoit and C. Kordon. Paris, Éditions du Centre National de la Recherche Scientifique, 1970. (Fr) pp.89-99 (English summary.)

szkowska A, Ebels I (Lab. d'Histophysiologie, 4, Ave. Gordon-Bennett, Paris 16e, France) (Pineal modulation of pituitary gonadotropic function) Rôle modulateur de l'épiphyse sur la fonction gonadotrope hypophysaire. In: Neuroendocrinologie. A National conference of the C.N.R.S., held Sept. 24-26, 1969, in Paris, ed. by J. Benoit and C. Kordon. Paris, Éditions du Centre National de la Recherche Scientifique, 1970. (Fr) pp.235-247 (Animals: rats. English summary.)

tta M, Schiaffini O, Piva F, Martini L (Dept. Pharmacology, Univ. Milan, Milan, Italy) Pineal principles and the control of adrenocorticotropin secretion. In: The Pineal Gland. A Ciba Foundation Symposium, ed. by G.E.W. Wolstenholme and J. Knight. Edinburgh, Churchill Livingston, 1971. pp.279-301 (Animals: rats.)

emama A (Lab. d'Histophysiologie, 4, Ave. Gordon-Bennett, Paris 16e, France) (Effect of monoamines on pituitary gonadotropin secretion in vitro) Effet des monoamines sur la sécrétion gonadotrope hypophysaire in vitro. In: Neuroendocrinologie. A national conference of the C.N.R.S., held Sept. 24-26, 1969, in Paris, ed. by J. Benoit and C. Kordon. Paris, Editions du Centre National de la Recherche Scientifique, 1970. (Fr) pp.109-119 (English summary.)

in HM, see under category no. 5.

11) Pathological States:

reev S, see under category no. 1.

kert O, see under category no. 9.

cro R, ed. (Dept. Psychiatry, Univ. Connecticut Health Center, Hartford, T) The Schizophrenic Syndrome: An Annual Review. New York, Brunner/ azel, 1971. p. 1-791 (There is a section on biochemical studies. As his is an annual review, all articles have been previously published.)

Dickey RP - Interaction of biogenic amines and sex steroids in the modulation of gonadotropin secretion. Ph.D. Thesis, Ohio State Univ., 1970. 140p. (Abstract in Dissertation Abst. (B) 32(1):462, 1971)

Fischer PA, Schneider E, Jacobi P, Maxion H (Neurologische Abt., Univ. Frankfurt, Heinrich-Hoffmann-str. 10, 6 Frankfurt a. M.-Niederrad, Germany) (Studies of the clinical course during L-DOPA therapy in Parkinson's disease) Verlaufsuntersuchungen während der L-Dopa-Therapie des Parkinson-Syndroms. Pharmakopsychiat Neuropsychopharmakol 4(3):136-148, 1971 (Ger) (English summary.)

Jönsson LE, see under category no. 9.

Kellogg C (Dept. Pharmacology, Univ. Götegorg, Götegorg, Sweden) Serotonin metabolism in the brains of mice sensitive or resistant to audiogenic seizures. J Neurobiol 2(3):209-219, 1971

Sande M van, Caers J, Lowenthal A (Lowenthal: Born-Bunge Foundation, Dept. Neurochemistry, 59, F. Williostr., B-2600 Berchem, Belgium) Cerebrospinal fluid amino acids in extrapyramidal disorders before and after L-DOPA treatment. Z Neurol 199(1-2):24-29, 1971

Schreiber RA, Schlesinger K (Dept. Biochemistry, Univ. South Carolina School of Medicine, Charleston, SC) Circadian rhythms and seizure susceptibility relation to 5-hydroxytryptamine and norepinephrine in brain. Physiol Behav 6(6):635-640, 1971 (Animals: mice.)

SLEEP BULLETIN

(1) Books, Reviews and Theoretical Discussions:

(2) Neurophysiology - General:

Korányi L, Beyer C, Guzmán-Flores C (Inst. Physiology, University Medical School, Rákóczi ut 80, Pécs, Hungary) Multiple unit activity during habituation, sleep-wakefulness cycle and the effect of ACTH and corticosteroid treatment. Physiol Behav 7(3):321-329, 1971 (ACTH, hydrocortisone, cortisone and corticosterone decreased multiple unit activity in unrestrained cats. ACTH and hydrocortisone reduced both number and duration of paradoxical sleep phases on day of administration, while corticosterone and cortisone resulted in an increase.)

(3) Neurophysiology of the Visual System:

(4) Physiology (Autonomic, Metabolic, Motor):

(5) Biochemistry, Pharmacology, Endocrinology:

Branchey M, Branchey L, Nadler RD (Nadler: Dept. Psychiatry, Downstate Medical Center, 450 Clarkson Ave., Brooklyn, NY 11203) Effects of estrogen and progesterone on sleep patterns of female rats. Physiol Behav 6(6): 743-746, 1971. (Injections with estrogen followed by progesterone in ovariectomized rats resulted in significant reductions in percent of both REM and NREM sleep. Treatment with estrogen alone resulted in a reduction of REM sleep but did not appear to influence NREM sleep.)

Jouvet M (Dept. Experimental Medicine, School of Medicine, Lyons, France) Serotonin and sleep. In: Biogenic Amines as Physiological Regulators. Society of General Physiologists, Symposium, Woods-Hole, Mass., 1969. Ed. by J.J. Blum. Englewood Cliffs, New Jersey, Prentice-Hall. pp.321-340.

Korányi L, Beyer C, Guzmán-Flores C (Inst. Physiology, University Medical School, Rákóczi ut 80, Pécs, Hungary) Multiple unit activity during habituation, sleep-wakefulness cycle and the effect of ACTH and corticosteroid treatment. Physiol Behav 7(3):321-329, 1971 (ACTH, hydrocortisone and corticosterone decreased multiple unit activity in unrestrained cats. ACTH and hydrocortisone reduced both number and duration of paradoxical sleep phases on day of administration, while corticosterone and cortisone resulted in an increase.)

Legram GV, Crowley TJ (6571st Aeromedical Research Laboratory, Holloman Air Force Base, NM) Biochemical regulation of the sleep-wake and temperature cycles. In: Medico-legal aspects of aviation. Recent advances in aerospace medicine. Papers presented to the 26th Aerospace Medical Panel meeting held in Florence from 21 to 24 October 1969. AGARD Conference proceedings no. 61. North Atlantic Treaty Organization, Advisory Group for Aerospace Research and Development, 1970. pp.28-1-28-8 (Specific changes in sleep patterns and cerebrocortical temperature following depletion of norepinephrine and serotonin were studied in rhesus monkeys.)

(6) Ontogeny:

(7) Phylogeny:

(8) Behavior (Conditioning, Performance, Discrimination):

(9) Sleep Cycle in the Human Adult:

(10) Effects of External Stimuli:

Hamblin MH, Drew WG (Lab. Behavioral Neurophysiology, Dept. Psychiatry, Univ. Kentucky Medical Center, Lexington, KY 40506) The effects of lights-off stimulation on the circadian distribution of REM sleep in the cat. Commun Behav Biol (A) 6(2):111-114, 1971 (Like the rat, chronic cats show increased REM sleep percentages under both on-off bright and on-off dim conditions. However, unlike the rat, the cat REM episodes were evenly distributed across the light and dark periods resulting in a significant overall increase in REM sleep.)

(11) Hypnosis:

(12) Personality and Psychopathology:

(13) Pathology and Disorders of Sleep:

(14) Sleep Deprivation (Total and Selective):

(15) Electrosleep:

Rosenthal SH (Dept. Psychiatry, Univ. of Texas Medical School, San Antonio, TX) Thyroid changes with electrosleep: a preliminary report. IESA Information no. 12/13:8-11, 1971

(16) Instrumentation and Methodology:

(17) Biological Rhythms:

Litsov AN (Diurnal rhythms of human physiological functions and performance during frequently alternating work-rest cycles) Kosmich Biol Med 5(1):44-52, 1971 (Rus) (English summary. Cover-to-cover translation of journal appears under the title Space Biology and Medicine.)

Sterman MB, Hoppenbrouwers T (Neuropsychology Research Lab., Veterans Administration Hospital, Sepulveda, CA) The development of sleep-waking and rest-activity patterns from fetus to adult in man. In: Brain Development and Behavior, ed. by M.B. Sterman, D.J. McGinty and A.M. Adinolfi. New York, Academic Press, 1971. pp. 203-227

NEUROENDOCRINE CONTROL MECHANISM: THE HYPOTHALAMIC-PITUITARY-GONADAL SYSTEM

(1) General Articles, Reviews and Books:

Abstracts of papers presented at the Fourth Annual Meeting of the Society for the Study of Reproduction, June 29-July 1, 1971, Boston Univ., Boston, MA. Biol Reprod 5(1):82-108, 1971

Atria A (Dept. Medicine, Faculty of Medicine, Univ. Chile, Chile) Endocrine Function Tests. Springfield, C.C. Thomas, 1970. p. 1-126. (Intended primarily for the clinician, this monograph is divided into 6 chapters: hypothalamus-hypophysis, thyroid, parathyroids, adrenals, ovaries, and testes; in each, the physiology, chemistry, synthesis, and function of the organ or its hormones are described.)

Bell ET, Christie DW (Petfoods Ltd., Waltham Study Farm, Freeby, Melton Mowbray, Leics., England) Gonadotrophin and steroid interrelationships during the normal menstrual cycle. Steroidologia 1(3):152-174, 1970 (A review of data on the blood and urine levels of FSH, LH, and steroids during the human menstrual cycle.)

noit J, Kordon C, eds. (Lab. d'Histophysiologie, 4, Ave. Gordon-Bennett, Paris 16e, France) (Neuroendocrinology) Neuroendocrinologie. National conference of the C.N.R.S., held Sept. 24-26, 1969, Paris. Paris, Editions du Centre National de la Recherche Scientifique, 1970. (Fr) p. 1-468 (Almost every paper has an English summary and is followed by a discussion. Individual papers of interest are listed separately under the appropriate catagories in this bulletin.)

ttendorf G, Insler V, eds. (Abt. Klinische und Experimentelle Endokrinologie, Univ.-Frauenklinik Hamburg, Hamburg, Germany) Clinical Application of Human Gonadotropins. Stuttgart, Georg Thieme Verlag, 1970 p. 1-180 (Proceedings of a Workshop Conference, Hamburg, 1970. Papers of more than strictly clinical interest are listed separately in this bulletin.)

ain PF (Dept. Zoology, Univ. Sheffield, Yorkshire, England) The physiology of population limitation in rodents--a review. Commun Behav Biol (A) 6(2):115-123, 1971 (The effects of isolation and grouping on brain chemistry and the functioning of the endocrine glands of caged laboratory rats and mice are reviewed; a possible inverse relationship between the pituitary/adrenal and the pituitary gonadal axes is reported.)

l EE (The endocrinic factors in the regulation of reproduction processes in farm animals.) Sel'skokoziaist Biol 6(3):411-419, 1971 (Rus) (A review. English summary.)

nson FH (Dept. Zoology, Univ. Texas, Austin, TX 78712) Rodent pheromones. iol Reprod 4(3):344-357, 1971 (A review of the relation of pheromones to reproductive processes, primarily in mice.)

ivenc R (Centre d'Études Biologiques des Animaux Sauvages, Forêt de Chize, 9-Villiers-en-Bois par Beauvoir, France) (Control of luteal biology in species with delayed ovo-implantation) Contrôle de la biologie lutéale hez les espèces à ovo-implantation différée. In: Neuroendocrinologie, d. by J. Benoit and C. Kordon, Paris, Editions du C.N.R.S., 1970. (Fr) . 223-233

istian JJ (Dept. Biological Sciences, State Univ. New York at Binghamton, inghamton, NY 13901) Population density and reproductive efficiency. iol Reprod 4(3):248-294, 1971 (A review of effects of population density n reproduction in various rodents. Extensive bibliography.)

away CH (Caribbean Primate Research Center, Univ. Puerto Rico, San Juan, uerto Rico 00905) Ecological adaptation and mammalian reproduction. iol Reprod 4(3):239-247, 1971 (A review of some of the main variations n mammalian reproductive patterns, discussed with regard to their daptive values.)

kelstein M, Klopper A, Conti C, Cassano C, ed. Research on Steroids. xford, Pergamon Press, 1970. p. 1-330. (Proceedings of the Fourth Meeting f the International Study Group for Steroid Hormones. Attention is ocused on the interaction between steroids and proteins. Individual apers of particular interest are cited separately in this bulletin.)

Frieden E, Lipner H (Dept. Chemistry, Florida State Univ., Tallahassee, FL) Biochemical Endocrinology of the Vertebrates. Englewood Cliffs, New Jersey, Prentice-Hall, Inc., 1971. p. 1-164. ("An inexpensive, compact, but comprehensive text", covering the field of endocrinology from a biochemical viewpoint. Included are chapters on the hormones of the H-P-G system.)

Gomes WR (Animal Reproduction Teaching and Research Center, Ohio State Univ., Columbus, OH) Chemical agents affecting testicular function and male fertility. In: The Testis. Vol. III. Influencing factors, ed. by A.D. Johnson, W.R. Gomes, and N.L. VanDemark. New York, Academic Press, 1970. p. 483-554 (Antispermatogenic agents and agents which induce altered endocrine balance [antiandrogens and others] are discussed.)

Gomes WR (Animal Reproduction Teaching and Research Center, Ohio State Univ., Columbus, OH) Metabolic and regulatory hormones influencing testis function In: The Testis. Vol. III. Influencing factors, ed. by A.D. Johnson, W. R. Gomes, and N.L. VanDemark. New York, Academic Press, 1970. p.67-138 (The effects of nongonadotropic endocrine agents--thyroid, adrenal, pineal, gonadal, nongonadotropic pituitary, and other hormones--on male fertility are reviewed individually. Extensive bibliography.)

Hardeland G, Rensing L, Hardeland R (R. Hardeland: Zoologisches Inst., Univ. Göttingen, Berliner-Str. 28, D-34 Göttingen, Germany) (Circadian rhythms of rat hormones) Circadiane Rhythmen von Hormonen bei der Ratte. J Interdiscipl Cycle Res 2(1):29-54, 1971 (Ger) (A review, including the gonadal steroids and gonadotropins. English summary.)

Heller H, Lederis K, eds. (Dept. Pharmacology, University, Bristol, England) Subcellular organization and function in endocrine tissues. Mem Soc Endocrinol 19:1-1012, 1971 (Proceedings of a symposium held at the University of Bristol on 5 to 11 April 1970. Individual papers of interest are listed separately in this bulletin.)

Hobson BM (Dept. Obstetrics and Gynaecology, Univ. Edinburgh, Hormone Lab., Simpson Memorial Maternity Pavilion, Royal Infirmary, Edinburgh 3, Scotland) Production of gonadotrophin, oestrogens and progesterone by the primate placenta. Adv Reprod Physiol 5:67-102, 1971 (A review of the placental hormone profiles of various primate species and man. Extensive bibliography.)

Hubinont PO, Leroy F, Galand P, eds. (Faculty Medicine, Free Univ. Brussels, Brussels, Belgium) Basic Actions of Sex Steroids on Target Organs. Basel, Switzerland, S. Karger, 1971. pp. 1-296 (Third International Seminar on Reproductive Physiology and Sexual Endocrinology, Brussels, May 28-30, 1970. Papers of particular interest are cited separately in this bulletin.)

ngelman-Sundberg A, Lunell NO, eds. (Dept. Obstetrics and Gynecology, Royal Caroline Inst., Sabbatsberg Hospital, Stockholm, Sweden) Current Problems in Fertility. New York, Plenum Press, 1971. p. 1-244 (Based on the IFA Symposium held in Stockholm, Sweden, April 2-4, 1970. Papers are presented under the general topics of insemination, transplantation in gynecology, use of blastocysts, contraception, and sterility. Studies on humans as well as animals are presented. Individual papers of particular interest are cited separately in this bulletin.)

noue S (Regulatory mechanisms in endocrine systems) Jap J Med Electron Biol Eng 9(3):37-42, 1971 (Jap) (Includes discussion of the gonadotropic hormones.)

hnson AS, Gomes WR, VanDemark NL, eds. (Dept. Animal Science, Univ. Georgia, Athens, GA) The Testis. Vol. III. Influencing factors. New York, Academic Press, 1970. p. 1-596 (The third in a 3-volume treatise. Chapters of special interest are cited separately in this bulletin.)

einman RL, Pickles VR, eds. - VII World Congress on Fertility and Sterility. Held 17-25 October, 1971, Tokyo/Kyoto, Japan. Excerpta Med. Int Congr Ser 234:1-163, 1971 (Abstracts of papers presented.)

unggren L - Studies on Seasonal Activity in Pigeons with Aspects on the Role of Biogenic Monoamines in the Endocrine Organs. Lund, C.W.K. Gleerup, 1969. p. 1-69 (Seasonal variations in body weight, and the functions of various endocrine glands including the reproductive organs, adenohypophysis and hypothalamus were recorded for 2 species of pigeons studied over a period of years.)

raine JA, Bell ET (Medical Research Council Clinical Endocrinology Unit, Edinburgh, Scotland) Hormone Assays and Their Clinical Application. Third ed. Baltimore, Williams and Wilkins Co., 1971. pp.1-684

rton RJ (Nature Conservancy's Monk's Wood Experimental Station, Huntingdon, England) Behind the face of the biological clock. New Scientist 51(762):254-256, 1971 (The role of light in animals' reproductive cycles, and possible control mechanisms within the animals are discussed.)

ell WD, Moyer DL (Division of Endocrinology, Harbor General Hospital, Torrance, CA) Physiology of Reproduction. St. Louis, C.V. Mosby, 1971 pp. 1-152 (An integrated summation of current concepts in human reproductive processes from both a static and a dynamic view.)

lder JJW (Zoological Lab., Univ. Groningen, Groningen, The Netherlands) On gonads and reproductive behaviour in the cichlid fish Aequidens portalegrensis (Hensel). Netherlands J Zool 21(3):265-365, 1971 (Histological changes in the gonads during the reproductive cycle and reproductive behaviour are described.)

Schwartz TB, ed. (Section of Endocrinology and Metabolism, Rush-Presbyterian-St. Luke's Medical Center, Chicago, IL) Year Book Endocrinol 71:1-428, 1971 (The material covered in this volume represents literature reviewed up to January, 1971.)

Stetson MH (Univ. Washington, St. Louis, MO) Control mechanisms in the avian hypothalamo-hypophysial-gonadal axis. Dissertation Abst (B) 32(1):533, 1971 (Abstract only.)

Stutinsky F (Inst. Physiologie, rue Descartes, 67-Strasbourg, France) (Neuroendocrine reflexes) Les réflexes neuroendocriniens. In: Neuroendocrinologie, ed. by J. Benoit and C. Kordon. Paris, Editions du C.N.R.S., 1970. (Fr) p. 193-206 (Exteroceptive [olfactory, photic, tactile, etc.] stimuli and the generalized hypophysial reactions to them are discussed. English summary.)

Swanson LV - Endocrine, behavioral, and ovarian changes in Holstein heifers from puberty to breeding size. Ph.D. thesis, Michigan State Univ., 1971. 190 p. (Abstract in Dissertation Abst Int (B) 32(3):1301-1302, 1971. Order from University Microfilms, order no. 71-23,248.)

Turner CD, Bagnara JT (Dept. Biological Sciences, Duquesne Univ., Pittsburgh, PA) General Endocrinology. 5th ed. Philadelphia, W.B. Saunders Co., 1971. pp. 1-659. (This latest edition remains a textbook for students of the biological sciences. Each chapter discusses a different endocrine organ and covers its anatomy as well as the physiology, biochemistry and mechanisms of action of its hormone secretions. Included among the 16 chapters are the pituitary gland, the biology of sex and reproduction, endocrinology of the testis, of the ovary, and hormones of pregnancy and lactation.)

Vandenbergh JG (Division of Research, North Carolina Dept. Mental Health, Raleigh, NC) Reproductive adaptations in macaques. Adv Reprod Physiol 5:103-118, 1971 (Maturation, behavior and cyclic phenomena are reviewed.)

Volkova OV (Regulatory systems in the function of endocrine glands) Tr Moskov Obshchest Ispyt Prirody 37:121-129, 1971 (Rus) (Endocrine interrelations, feedback and the role of the CNS are discussed. English summary.)

Westphal U - Steroid-Protein Interactions. New York, Springer-Verlag, 1971 pp.1-567 (Vol. 4 of Monographs on Endocrinology. The scope of this monograph "has been essentially limited to steroid interactions with the various protein components of the blood serum".)

No author - Endocrine regulation of human gestation. Report of a WHO scientific group. WHO Tech Rep Ser 471:1-32, 1971

(2) Methods and Chemistry:

Abraham GE, Hopper K, Tulchinsky D, Swerdloff RS, Odell WD (Division of Endocrinology, Dept. Medicine, Los Angeles County Harbor General Hospital, Torrance, CA 90509) Simultaneous measurement of plasma progesterone, 17-hydroxyprogesterone and estradiol-17beta by radioimmunoassay. Anal Letters 4(6):325-335, 1971

Boris A, Trmal T, Nelson EW Jr. (Research Division, Hoffmann-La Roche Inc., Nutley, NJ 07110) Utility of pubertal ovulation in the rat for the study of anti-ovulatory compounds. Contraception 4(2):97-103, 1971 (Use of the initial ovulation in the rat for study of anti-ovulatory compounds [methallibure in this particular study] is described.)

Breustedt HJ (Dept. Pathology, Univ. Giessen, Giessen, Germany) Methodological aspects in the immunohistological detection of pituitary hormones. In: Immunological Methods in Endocrinology; Symposium in Ulm, February 25, 1970, in connection with the 16th Symposium of the German Endocrine Society. Horm Metab Res [Suppl] 3:18-21, 1971

Brossmer R, Dörner M, Hilgenfeldt U, Leidenberger F, Trude E (Inst. Biochemie (Med. Fak.) der Univ., Akademiestr. 5, 6900 Heidelberg, Germany) Chemical modification of human chorionic gonadotropin and its biological and immunological characterization. FEBS Letters 15(1):36-39, 1971

Brossmer R, Dörner M, Hilgenfeldt U, Leidenberger F, Trude E (Inst. Biochemie (Med. Fak.) der Univ., Akademiester. 5, 6900 Heidelberg, Germany) Purification and characterization of human chorionic gonadotropin. FEBS Letters 15(1):33-35, 1971

Branchimont P, Hendrick JC (Inst. Medicine, Dept. Clinical Medicine and Pathology, Univ. Liège, Liège, Belgium) Some particular aspects of FSH and LH radioimmunoassays. In: Immunological Methods in Endocrinology; Symposium in Ulm, February 25, 1970, in connection with the 16th Symposium of the German Endocrine Society. Horm Metab Res [Suppl] 3:46-52, 1971

Bassan SH, Berswordt-Wallrabe R von, Neumann F (Experimentelle Forschung Pharma, Abt. Endokrinpharmakologie, Schering AG, Berlin, Germany) A short review on solid phase radioimmunoassay of steroids. In: Immunological Methods in Endocrinology; Symposium in Ulm, February 25, 1970, in connection with the 16th Symposium of the German Endocrine Society. Horm Metab Res [Suppl] 3:113-115, 1971

Hebborn P (Dept. Biochemical Pharmacology, School of Pharmacy, State Univ. New York at Buffalo, Buffalo, NY) Androgenic and anabolic agents. In: Screening Methods in Pharmacology, Vol. II, ed. by R.A. Turner and P. Hebborn. New York, Academic Press, 1971. pp. 75-83 (Bioassay systems for testing androgenic, anabolic and antiandrogenic activity of compounds are described.)

Hebborn P (Dept. Biochemical Pharmacology, School of Pharmacy, State Univ. New York at Buffalo, Buffalo, NY) Progestational agents. In: Screening Methods in Pharmacology, Vol. II, ed. by R.A. Turner and P. Hebborn. New York, Academic Press, 1971. pp. 105-119 (Various bioassay methods are reviewed.)

Heimer L, Kuikka V, Larsson K, Nordstrom E (Dept. Psychology, M.I.T., Cambridge, MA 02139) A headholder for stereotaxic operations of small laboratory animals. Physiol Behav 7(2):263-264, 1971

Henry RA, Schmit JA, Dieckman JF (E.I. du Pont de Nemours & Co., Instrument Products Division, Wilmington, DE 19898) The analysis of steroids and derivatized steriods by high speed liquid chromatography. J Chromatogr Sci 9(9):513-520, 1971 (A survey of applications of high speed liquid chromatography to the analysis of steroids.)

Josimovich JB, Wilson EL, Leff A (Magee-Womens Hospital, Pittsburgh, PA 15213) Vaginal mucification induced by pituitary prolactin and placental lactogen in mice. A luteotrophic test for protein hormone preparations. Gynecol Invest 1(4):210-221, 1971

Korenman S, Perrin L, Rao B, Tulchinsky D (Univ. California, School of Medicine, Harbor General Hospital Campus, Torrance, CA) Plasma estrogen assays utilizing the cytoplasmic estrogen binder of rabbit uterus. In: Research on Steroids, ed. by M. Finkelstein, A. Klopper, C. Conti, and C. Cassano. Oxford, Pergamon Press, 1970. p. 287-296 (The estrogen binding protein of rabbit uterine cytosol was used for the assay of estrone and estradiol; levels throughout the menstrual cycle in women were compared with the LH pattern during the same period.)

May M (Center for Theoretical Biology, State Univ. New York at Buffalo, Buffalo, NY) Anovulatory agents. In: Screening Methods in Pharmacology, Vol. II, ed. by R.A. Turner and P. Hebborn. New York, Academic Press, 1971 pp. 101-104 (Actions and screening assays are briefly described.)

May M (Center for Theoretical Biology, State Univ. New York at Buffalo, Buffalo, NY) Estrogenic and antiestrogenic agents. In: Screening Methods in Pharmacology, Vol. II, ed. by R.A. Turner and P. Hebborn. New York, Academic Press, 1971. pp. 85-100 (In vivo and in vitro assays are presented.)

Potts WJ, East PF (Dept. Pharmacology, G.D. Seale & Co., Chicago, IL 60680) A simple intracranial cannula for the rat. Physiol Behav 7(2):281-282, 1971

Rosselin G, Freychet P, Dolais J (Groupe de Recherche de Diabétologie et d'Études Radio-immunologiques des Hormones Protéiques, U.55 de l'Inst. National de la Santé et de la Recherche Médicale, Hôtel Dieu, Place du Parvis Notre-Dame, Paris 40, France) Discussion on the thyrostimulating hormone (TSH) and the folliculo-stimulating hormone (FSH) radioimmunoassay. In: Immunological Methods in Endocrinology; Symposium in Ulm, February 25, 1970, in connection with the 16th Symposium of the German Endocrine Society. Horm Metab Res [Suppl] 3:62-72, 1971

horneycroft IH, Caldwell BV, Abraham GE, Tillson SA, Scaramuzzi RJ (Worcester Foundation for Experimental Biology, Shrewsbury, MA; Thorneycroft: Dept. Obstetrics and Gynecology, Univ. Southern California, School of Medicine, 1200 N. State St., Los Angeles, CA) Solid phase radioimmunoassay of estradiol-17beta and estrone. In: Research on Steroids, ed. by M. Finkelstein, A. Klopper, C. Conti, and C. Cassano. Oxford, Pergamon Press, 1970. p. 205-212 (The use of a specific immunoglobulin for radioimmunoassay of picogram quantities of estradiol and estrone is described.)

ouchstone JC, Murawec T (Steroid Lab., Dept. Obstetrics and Gynecology, School of Medicine, Univ. Pennsylvania, Philadelphia PA 19104) Mixed phase packings of OV substrates for gas chromatography of steroids. J Chromatgr Sci 9:446-447, 1971

(3) Anatomy and Histochemistry:

llanson M (Dept. Cellular Biology and Histology, St. Mary's Hospital Medical School, London, England) Observations on the pituitary gland of some members of the suborder suiformes (mammalia: Artiodactyla). J Zool (Lond) 164(Pt 4):451-461, 1971 (Macroscopic and microscopic anatomy of the pituitary gland of the warthog, the Vietnam pig, the bush pig, and the hippopotamus are described.)

ern HA (Zoology Dept., Univ. California, Berkeley, CA 94720) Comparison of the innervation of the pituitary of two euryhaline teleost fishes, Gillichthys mirabilis and Tilapia mossambica, with special reference to the origin and nature of type 'B' fibres. Mem Soc Endocrinol 19:817-822, 1971

ourneva V (Inst. Morphologie, Académie des Séances de Bulgarie, Bulgaria) (Histoenzymology of the corpus luteum of the rat ovary during the estrus cycle and in pregnancy) Histoenzymologie du corps jaune de l'ovaire chez le Rat pendant le cycle oestral et la grossesse. C R Assoc Anat 146:430-432, 1971 (Fr) (English summary.)

as L - Quantitative and histomorphological studies on age-correlated changes in canine and porcine hypophysis (Volumes I and II). Ph.D. thesis, Iowa State Univ., 1971. 733 pp. (Abstract in Dissertation Abst Int (B) 32(4):1965, 1971. Order from University Microfilms, order no. 71-26,847.)

oskocil M (Inst. Anatomy, Charles Univ. Medical Faculty, U nemocnice 3, Praha-2, Czechoslovakia) Development of the chick hypophysis. Acta Univ. Carol /Med/ (Praha) (Monogr) 40:1-131, 1970 (A monograph with extensive bibliography.)

ubois MP (Lab. Physiologie de la Reproduction, Inst. National de la Recherche Agronomique C.R.V.Z., 37-Nouzilly, France) (Cytology of the bovine hypophysis: separation of the somatotropic and prolactin cells. Identification of LH cells in the pars tuberalis and pars intermedia) Cytologie de l'hypophyse des Bovins: séparation des cellules somatotropes et des cellules a prolactine par immunofluorescence. Identification des cellules LH dans la pars tuberalis et la pars intermedia. C R Assoc Anat 145:139-146, 1971 (Fr) (English summary.)

Dubois MP, Cohere G (Station de Physiologie de la Reproduction, C.R.V.Z.-INRA, 37-Nouzilly, France) (Ultrastructural cytology of the anterior lobe and pars tuberalis of the bovine hypophysis) Cytologie ultrastructurale du lobe antérieur et de la pars tuberalis de l'hypophyse des Bovins. C R Assoc Anat 145:147-157, 1971 (Fr) (English summary.)

El Hakeem OH (Dept. Zoology, Univ. Khartoum, Khartoum, Sudan) Comparative morphological and histological-histochemical studies on the hypophyses of some South American rodents (Caviomorpha, Wood 1955). Z Wiss Zool (Abt A) 182(1-2):131-183, 1971

Farquhar MG (Rockefeller Univ., 66th St. at York Ave., New York, NY 10021) Processing of secretory products by cells of the anterior pituitary gland. Mem Soc Endocrinol 19:79-124, 1971 (A review of anterior pituitary secretion, including electron microscopic studies of rat gonadotrophs.)

Foster CL (Dept. Cell Biology, St. Mary's Hospital Medical School, Univ. London, London W.2, England) Relationship between ultrastructure and function in the adenohypophysis of the rabbit. Mem Soc Endocrinol 19:125-146, 1971 (Electron microscopic studies of the hormone-producing as well as the nonsecretory cells are presented.)

Heap PF, see under "Drug effects".

Herlant M (Lab. d'Histologie, Faculté de Médecine et de Pharmacie, 97, rue aux Laines, Bruxelles, Belgium) (Ultrastructure of the tubero-hypophysial system in the bat) L'ultrastructure du système tubero-hypophysaire chez les chauves-souris indigènes du genre Myotis. In: Neuroendocrinologie, ed. by J. Benoit and C. Kordon. Paris, Editions du C.N.R.S., 1970. (Fr) p. 125-135 (English summary.)

Knowles FGW (Dept. Anatomy, King's College, Univ. London, London W.C.2, England) Secretory cells in the ependyma. Mem Soc Endocrinol 19:875-881, 1971 (The ependymal cells of the dogfish infundibular recess are described.)

Legait H, Legait E, Roux M (Lab. Histologie de la Faculté de Médecine, Nancy, France) (Morphological and experimental study on the pars tuberalis of the hypophysis of certain mammals) Étude morphologique et expérimentale sur la pars tuberalis de l'hypophyse de quelques Mammifères. C R Assoc Anat 145:261-265, 1971 (Fr) (Primarily in rats. English summary

Maraček I, Arendarčík J (Dept. Comparative Physiology, Univ. Veterinary Medicine, Kosice, Czechoslovakia) Histochemical study of basophil cells in pars distalis of bovine anterior pituitary. Endocr Exp 5(3):167-178, 1971 (The results justify the division of the bovine anterior pituitary into a cortex and medulla in addition to the pars distalis and pars tuberalis.

McShan WH (Dept. Zoology, Univ. Wisconsin, 1117 W. Johnson St., Madison, WI 53706) Secretory granules from anterior pituitary glands. Mem Soc Endocrinol 19:917-918, 1971

McShan WH, see under "Anterior putuitary and gonadotropins".

Oksche A (Inst. Anatomy, Justus Liebig Univ. 63 Giessen, Germany) Neuroanatomical problems of detection and localization of neurones producing neurohormones and releasers, with special reference to the avian hypothalamo-hypophysial system. Mem Soc Endocrinol 19:903-908, 1971

Sathyanesan AG (Surgical Research Lab., College of Medical Sciences, Benaras Hindu Univ., Varanasi-5, India) Hypothalamo-hypophysial vascularization and its relationship with the neurosecretory system in the catfish Clarias batrachus (L). Zool Beitr 17(1):1-11, 1971

Tougard C (Lab. Biologie moléculaire, Collège de France, place Marcelin-Barthelot, Paris 5e, France) (Distribution and fixation sites of monoamines in the adenohypophysial parenchyma) Distribution et sites de fixation des monoamines dans le parenchyme adénohypophysaire. In: Neuroendocrinologie, ed. by J. Benoit and C. Kordon. Paris, Editions du C.N.R.S., 1970 (Fr) p. 101-108 (Incubation of rat and quail anterior pituitaries with tritiated serotonin resulted in localization of radioactivity in the secretory granules. English summary.)

von Lawzewitsch I, Dickmann GH, Amezúa L, Pardal C (C.I.R. Centro de Investigaciones sobre Reproducción, Facultad de Medicina, Paraguay, 2155, 10.° piso, Buenos Aires, Argentina) (Morphological study of the human adenohypophysis) Estudios morfologicos de la adenohipófisis humana. An Anat (Zaragoza) 20(50):295-321, 1971 (Spa) (Light and electron microscopy were used and seven different cell types observed and described. English summary.)

(4) Hypothalamus, Releasing Factors, Other Brain Areas:

Barry J (Lab. Histologie, Faculté de Médecine et E.R.A. no 175, C.N.R.S., Lille, France) (U.V. fluorescence studies on the monoamines of the hypothalamo-prehypophysial axis in various rodents) Étude en fluorescence U. V. des monoamines des axes hypothalamo-prehypophysaires chez divers rongeurs. In: Neuroendocrinologie, ed. by J. Benoit and C. Kordon. Paris, Editions du C.N.R.S., 1970. (Fr) p. 59-72 (The role of hypothalamic monoamines in the control of anterior pituitary hormone secretions, as studied by morphological and histophysiological methods, is reviewed. English summary.)

Cross BA (Dept. Anatomy, University Bristol, England) Cell recording in the hypothalamo-hypophysial system. Mem Soc Endocrinol 19:867-874, 1971 (Brief mention is made of hypothalamic neuronal activity during the course of the rat 4-day cycle, and in hypophysectomized rats.)

Jackson GL, Roche JF, Foster DL, Dziuk PJ (Dept. Veterinary Physiology and Pharmacology, Univ. Illinois, Urbana, IL 61801) Luteinizing hormone releasing activity in the hypothalamus of anestrous and cyclic ewes. Biol Reprod 5(1):5-12, 1971 (LH-RF in hypothalami of ewes was as high in anestrus as during estrus suggesting that anestrus is due to the absence of a signal for release of LH-RF rather than to an absence of the releasing factor itself. Abstracted in depth.)

Jutisz M, de la Llosa MP, Berault A, Kerdelhue B (Lab. Physiologie Cellulaire, Collège de France, place Marcelin-Berthelot, Paris 5e, France) (Role of the hypothalamic hormones in regulating the secretion and synthesis of the anterior pituitary hormones) Le rôle des hormones hypothalamiques dans la régulation de l'excretion et de la synthèse des hormones adénohypophysaires. In: Neuroendocrinologie, ed. by J. Benoit and C. Kordon. Paris, Editions du C.N.R.S., 1970 (Fr) p. 287-301 (The factors which stimulate release and synthesis of the pituitary trophic hormones in vitro are discussed. English summary.)

Kordon C (Lab. Histophysiologie, Collège de France, 4, ave. Gordon-Bennett, Paris 16e, France) (Role of hypothalamic monoamines in the regulation of the adenohypophysis) Rôle des monoamines hypothalamiques dans les régulations adénohypophysaires. In: Neuroendocrinologie, ed. by J. Benoit and C. Kordon. Paris, Editions du C.N.R.S., 1970 (Fr) p. 73-88 (The dopaminergic and serotoninergic systems as involved in control of pituitary gonadotropin function and ovulation are discussed. English summary.)

Leonardelli J (Lab. Histologie, Faculté de Médecine, Lille, 59-France) (Catecholamines and control of anterior hypophysial gonadotropic functions) Catécholamines et controle des fonctions gonadotropes antéhypophysaires. C R Assoc Anat 145:266-271, 1971 (Fr) (Studies were made in guinea pigs and rats. English summary.)

Lichtensteiger W (Pharmakologisches Inst., Univ. Zürich, Gloriastr. 32, 8006 Zürich, Switzerland) (Variations in catecholamine fluorescence under different neuroendocrine conditions) Variations de la fluorescence des catecholamines dans diverses conditions neuroendocriniennes. In: Neuroendocrinologie, ed. by J. Benoit and C. Kordon. Paris, Editions du C.N.R.S., 1970. (Fr) p.89-99 (The effects of various hormonal states such as different stages of the estrus cycle, ovariectomy, steroid administration, etc. on the catecholamines of the tubero-infundibular neurons were examined in rats. English summary.)

Malyshenko NM, see under "Gonads and gonada steroids".

Scemama A (Lab. d'Histophysiologie, 4, ave. Gordon-Bennett, Paris, 16e, France) (Effect of monoamines on pituitary gonadotropin secretion in vitro) Effet des monoamines sur la sécrétion gonadotrope hypophysaire in vitro. In: Neuroendocrinologie, ed. by J. Benoit and C. Kordon. Paris, Editions du C.N.R.S., 1970 (Fr) p. 109-119 (Monoamines [DA, NA, 5-HT] failed to stimulate gonadotropin secretion when incubated directly with rat pituitaries in vitro. English summary.)

Tima L (Dept. Anatomy, University Medical School, Pécs, Hungary) On the site of production of releasing factors. Mem Soc Endocrinol 19:895-901, 1971 (Studies designed to locate the hypothalamic areas responsible for the production of specific releasing factors are described.)

(5) Anterior Pituitary and Gonadotropins:

Breckwoldt M, Bettendorf G (Bettendorf: Abt. Klinische und Experimentelle Endokrinologie, Univ.-Frauenklinik Hamburg, Hamburg, Germany) Induction of ovulation in the non-cycling rhesus monkey (Macaca mulatta) with various gonadotropins. In: Clinical Application of Human Gonadotropins, ed. by G. Bettendorf and V. Insler. Stuttgart, Georg Thieme Verlag, 1970 p. 160-162

Chestnut CW (Simon Fraser Univ., Burnaby, British Columbia, Canada) The pituitary gland of coho salmon (Oncorhynchus kisutch Walbaum) and its function in gonad maturation and thyroid activity. Dissertation Abst (B) 32(2):735, 1971 (Abstract only.)

Convey EM, Bretschneider E, Hafs HD, Oxender WD (Animal Reproduction Lab., Dairy Dept., Michigan State Univ., East Lansing, MI 48823) Serum levels of LH, prolactin and growth hormone after ejaculation in bulls. Biol Reprod 5(1):20-24, 1971 (Serum prolactin was greatly increased, GH somewhat increased, but LH relatively unchanged after ejaculation.)

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Dickey RP (Ohio State Univ., Columbus, OH) Interaction of biogenic amines and sex steroids in the modulation of gonadotropin secretion. Dissertation Abst (B) 32(1):462, 1971 (Abstract only.)

Flickinger IL, Breckwoldt M (Dept. Obstetrics and Gynecology, Univ. Pennsylvania, School of Medicine, Philadelphia, PA) Ovarian responses to gonadotropin in the rhesus monkey. In: Clinical Application of Human Gonadotropins, ed. by G. Bettendorf and V. Insler. Stuttgart, Georg Thieme Verlag, 1970. p. 163-166

Geschwind II (Dept. Animal Husbandry, Univ. California, Davis, CA 95616) Mechanisms of release of anterior pituitary hormones: studies in vitro. Mem Soc Endocrinol 19:221-230, 1971 (The effects of cations, metabolic inhibitors and other factors which affect release of pituitary hormones [LH, FSH, TSH, ACTH] are discussed.)

Grob HS (Dept. Biology, Adelphi Univ., Garden City, NY 11530) Monolayer culture of ovarian follicular elements derived from isolated mouse follicles. Biol Reprod 5(2):207-213, 1971 (The effects of in vitro addition of FSH and/or LH on mitotic activity and steroid synthesis were studied.)

Gunn SA, Gould TC (Dept. Pathology, Univ. Miami, Coral Gables, FL) Cadmium and other mineral elements. In: The Testis. Vol. III. Influencing factors, ed. by A.D. Johnson, W.R. Gomes, and N.L. VanDemark, New York, Academic Press, 1970. p. 377-481 (Effects of various mineral elements on the testis are reviewed. Includes a short discussion of hormonal [ICSH, FSH and others] control of Zn uptake by the testis.)

Hirose K (Ocean Research Inst., Univ. Tokyo, Nakano, Tokyo 164, Japan) Biological study on ovulation in vitro of fish--I. Effects of pituitary and chorionic gonadotropins on ovulation in vitro of medaka, Oryzias latpes. Bull Jap Soc Sci Fisheries 37(7):585-591, 1971 (LH, FSH and HCG all induced ovulation when added to the eggs in vitro.)

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McShan WH (Dept. Zoology, Univ. Wisconsin, 1117 W. Johnson St., Madison WI 53706) Secretory granules from anterior pituitary glands. Mem Soc Endocrinol 19:161-184, 1971 (A report on the preparation, biological action and properties of secretory cells from male chicken and rat anterior pituitaries. Includes electron microscopic studies.)

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Moszkowska A, Ebels I (Lab. d'Histophysiologie, 4, ave. Gordon-Bennett, Paris, 16e, France) (Pineal modulation of pituitary gonadotropic function) Rôle modulateur de l'epiphyse sur la fonction gonadotrope hypophysaire. In: Neuroendocrinologie, ed. by J. Benoit and C. Kordon. Paris, Editions du C.N.R.S., 1970 (Fr) p. 235-247 (English summary.)

Pernollet JC, Garnier J (Unité de Recherches INRA de Biochimie Physique, Lab. Biologie Physico-Chimique, Univ. Paris-Sud, 91-Orsay, France) Structural modifications involved in the dissociation and reassociation of the alpha and beta subunits of ovine luteinizing hormone. FEBS Letters 18(2):189-191, 1971 (The results suggest that loss of biological activity of LH-alpha and LH-beta subunits, either alone or reassociated, are related to changes in the folding of their polypeptide chain as well as their state of association.)

Pisano A, Rengel D (Inst. Anatomia General y Embriologia, Facultad de Medicina Univ. Buenos Aires, Buenos Aires, Argentina) The effects of purified FSH and LH on larval gonads of Telmatobius hauthali schreiteri. Arch Zool Ital 55:49-58, 1970

Proudfit CM - Gonadotropin patterns in intact and castrated male rats. Ph.D. thesis, Univ. Kansas, 1971. 212 p. (Abstract in Dissertation Abst Int. (B) 32(4):2372, 1971. Order from University Microfilms, order no. 71-27,196.)

Reed M (M.R.C. Neuroendocrinology Unit, Dept. Anatomy, University, Oxford, England) Some aspects of hormonal control of ovulation. Mem Soc Endocrinol 19:887-894, 1971 (Gonadotropic control of ovulation in the guinea-pig is discussed.)

Tixier-Vidal A (Lab. Biologie Moléculaires, Collège de France, Place Marcelin-Barthelot, Paris 5e, France) (Analysis of secretory processes in anterior pituitary cells. Synthesis and turnover of proteins) Analyse du phénomène secrétoire dans les cellules adénohypophysaires. Synthèse et renouvellement des protéines. In: Neuroendocrinologie, ed. by J. Benoit and C. Kordon. Paris, Editions du C.N.R.S., 1970. (Fr) p. 303-313 (Studies in duck pituitary tissue in vitro. English summary.)

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Winer AD, Nikitovitch-Winer MB (Biochemistry Dept., Univ. Kentucky Medical Center, Lexington, KY 40506) Hormonal effects on the rat gonadal lactate dehydrogenases. FEBS Letters 16(1):21-24, 1971 (The effects of gonadotrophin or testosterone treatment on gonadal LDH isoenzymes in hypophysectomized animals were studied.)

(6) Gonads and Gonadal Steroids:

Akbar AM - Some effects of estradiol on ovine luteal function. Ph.D. thesis, Oregon State Univ., 1971. 84 p. (Abstract in Dissertation Abst Int (B) 32(4):2363, 1971. Order from University Microfilms, order no. 71-21,630.)

Anderson NO (Univ. Illinois at Urbana-Champaign, Urbana, IL) The effect of estrogen on synthesis and acetylation of histones in rat uteri. Dissertation Abst (B) 32(2):1168, 1971 (Abstract only.)

Branchey M, Branchey L, Nadler RD (Nadler: Dept. Psychiatry, Downstate Medical Center, 450 Clarkson Ave., Brooklyn, NY 11203) Effects of estrogen and progesterone on sleep patterns of female rats. Physiol Behav 6(6):743-746, 1971 (Treatment of ovariectomized rats with estrogen reduced REM sleep whereas estrogen plus progesterone resulted in reductions in both REM and nonREM sleep.)

DiPasquale G, Mischler T (Warner-Lambert Research Inst., Division of Biological Research, Morris Plains, NJ 07950) Uterotrophic activities of various estrogens after topical application in the rat. Steroidologia 1(4):218-224, 1970

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Fischer TV (Dept. Anatomy, Univ. Michigan, Ann Arbor, MI) Local pathway controlling luteal function in the guinea pig. Biol Reprod 4(2):126-128, 1971 (Results of studies on unilateral surgical separation of structures linking uterus and ovary indicate that the local pathway for uterine luteolysis must be within the utero-ovarian anastomotic vessels or some associated structure.)

Ghanadian R, Fotherby K (Fotherby: Dept. Steroid Biochemistry, Royal Postgraduate Medical School, Ducane Rd., London, W.12, England) Uptake of ^{3}H-testosterone by tissues of the male rat. Steroidologia 1(4):193-200, 1970 (By prostatic tissue in vitro.)

Kapadia G, Means AR, O'Malley BW (Dept. Obstetrics-Gynecology, Vanderbilt Univ. Medical School, Nashville, TN 37203; Kapadia: Reproduction Research Branch, National Inst. Child Health and Human Development, National Insts. Health, Bethesda, MD 20014) Rapidly labelled RNA synthesis by isolated oviduct cells: effects of steroid hormones. Cytobios 9(3):33-42, 1971 (Treatment of chicks with estrogen and/or progesterone influenced the pattern of incorporation of ^{3}H-uridine into rapidly labelled RNA by subsequently isolated oviduct cells.)

Kelley HE, Brinkley HJ (Animal Husbandry Research Division, A.R.S., U.S. Dept. Agriculture, Beltsville, MD 20705) Effect of hysterectomy on luteinizing hormone-induced corpora lutea of pseudopregnant rabbits. Biol Reprod 5(1):1-4, 1971 (The results suggest that the uterus may influence luteal development as well as regression of corpora lutea in pseudopregnant rabbits.)

Labhsetwar AP (Worcester Foundation for Experimental Biology, Shrewsbury, MA 01545) Exploration of site(s) of action of progesterone in inhibiting ovulation in rats. Biol Reprod 5(2):115-122, 1971 (The results suggest that progesterone does not act selectively on any one organ but that its targets include the hypothalamus and pituitary as well as the ovary.)

Little DA, Lambourne LJ (Division of Animal Physiology, CSIRO, Cunningham Lab., St. Lucia, Qld. 4067, Australia) Factors affecting the uterine weight of ewes ovariectomized for bioassay procedures. Aust J Agric Res 22(3):491-495, 1971

Malyshenko NM (Kaf. Normal'noi Fiziologii, Chernovitskogo Meditsinskogo Inst., USSR) (The effect of testosterone on bioelectrical activity of the brain cortex and some subcortical structures under photo and audio stimulation) Nauch Dokl Vyssh Shkol Biol Nauk 86(2):22-27, 1971 (Rus)

Mori T, Kimura T (Zoological Inst. Faculty of Science, Univ. Tokyo, Tokyo, Japan) Growth and differentiation of the epithelium of vaginal explants from immature mice during organ culture. J Fac Sci Univ Tokyo (Zool) 12(1):23-36, 1970 (Differences in growth and differentiation of vaginal explants from mice of varying ages (0 - 14 days) and the effects of in vitro addition of estrogen were examined histologically.)

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Ohta M, Iwase S, Sugawara S, Takeuchi S (Dept. Animal Husbandry, Faculty of Agriculture, Tohoku Univ., Sendai 980, Japan) (Influence of gestagen and estrogen on reproductive activity in postpartum dairy cows) Jap J Anim Reprod 16(3):107-112, 1971 (Jap)

Scaramuzzi RJ, Caldwell BV, Tillson SA, Thorneycroft IH (Worcester Foundation for Experimental Biology, Shrewsbury, MA) Neutralization of exogenous estradiol activity following active immunization procedures. In: Research on Steroids, ed. by M. Finkelstein, A. Klopper, C. Conti, and C. Cassano. Oxford, Pergamon Press, 1970. p. 187-196 (The ability of the actively immunized ewe to neutralize the action of exogenously administered estradiol was tested using release of pituitary LH and induction of estrus behavior as measures of estradiol activity.)

Vande Wiele RL, Ferin M, Raziano J, Dyrenfurth I, Mikhail G (Dept. Obstetrics and Gynecology, College of Physicians and Surgeons, Columbia Univ., New York, NY) Studies with antibodies to steroids. In: Research on Steroids, ed. by M. Finkelstein, A. Klopper, C. Conti, and C. Cassano. Oxford, Pergamon Press, 1970. p. 171-185 (A discussion of physiological studies and steroid assays which use steroid antibodies; includes studies in rats on the role of estrogens and progesterone as triggers of the ovulatory LH release.)

Waelbroeck-Van Gaver C (Lab. Cytologie et Cancerologie Experimentale, Univ. Libre Bruxelles, 115, Boulevard de Waterloo, B-1000 Bruxelles, Belgium) Sensitivity of the interstitial cells of the mouse testis to a brief gonadotropic stimulation after a long-term oestrogenic treatment. In: Basic Actions of Sex Steroids on Target Organs, ed. by P.O. Hubinont, F. Leroy, and P. Galand. Basal, Switzerland, S. Karger, 1971. pp. 284-288.

(7) Other Endocrine Interactions:

Aron C (Inst. d'Histologie, Faculté de Médecine, 67-Strasbourg, France) (Genital and olfactory stimulation and reflex ovulation in the rat) Afférences génitales et olfactives et reflexe de ponte chez la ratte. In: Neuroendocrinologie, ed. by J. Benoit and C. Kordon. Paris, Editions du C.N.R.S., 1970 (Fr) p. 215-222 (English summary.)

Ewig JE (Pennsylvania State Univ., University Park, PA) In vivo effects of melatonin on gonadotropin secretion in the rat. Dissertation Abst (B) 32(2):1171-1172, 1971 (Abstract only.)

Fraschini F, Collu R, Martini L (Ist. Farmacologia e di Terapia, Univ. degli Studi, Via Vanvitelli 32, 20129 Milano, Italy) Mechanisms of inhibitory action of pineal principles on gonadotropin secretion. In: The Pineal Gland. A Ciba Foundation Symposium, ed. by G.E.W. Wolstenholme and J. Knight. Edinburgh, Churchill Livingstone, 1971. pp. 259-278

Gomes WR, see under "General articles, reviews and books".

Herbert J (Dept. Anatomy, Univ. Cambridge, Cambridge, England) The role of the pineal gland in the control by light of the reproductive cycle of the ferret. In: The Pineal Gland. A Ciba Foundation Symposium, ed. by G.E.W. Wolstenholme and J. Knight. Edinburgh, Churchill Livingstone. 1971. pp. 303-327

Jacobel PW, Rodgers CH (Rodgers: Dept. Psychiatry, Biological Labs., School of Medicine, Univ. Illinois, Chicago, IL 60612) Adrenalectomy: effects on mating behavior, ovulation, and early gestation in the cycling rat. Horm Behav 2(3):201-206, 1971 (Adrenalectomy reduced ovulation in rats.)

Mess B, Heizer A, Tóth A, Tima L (Dept. Anatomy, University Medical School, Dischka utca 5, Pécs, Hungary) Luteinization induced by pinealectomy in the polyfollicular ovaries of rats bearing anterior hypothalamic lesions. In: The Pineal Gland. A Ciba Foundation Symposium, ed. by G.E.W. Wolstenholme and J. Knight. Edinburgh, Churchill Livingstone, 1971. pp. 229-240

Moszkowska A, Kordon C, Ebels I (Lab. d'Histophysiologie, Collège de France, 4 ave. Gordon-Bennett, Paris 16e, France) Biochemical fractions and mechanisms involved in the pineal modulation of pituitary gonadotropin release. In: The Pineal Gland. A Ciba Foundation Symposium, ed. by G.E.W. Wolstenholme and J. Knight. Edinburgh, Churchill Livingstone, 1971. pp. 241-258

Norris JT - The effect of pineal principles upon the rat ovary. Ph.D. thesis, Univ. Texas, Medical Branch, Galveston, 1971. 142 p. (Abstract in Dissertation Abst Int (B) 32(5):2489, 1971. Order from University Microfilms, P.O. Box 1764, Ann Arbor, MI 48106, order no. 71-29,276.)

Reiter RJ, Sorrentino S Jr. (Dept. Anatomy, School of Medicine and Dentistry, Univ. Rochester, 260 Crittenden Blvd., Rochester, NY 14620) Factors influential in determining the gonad-inhibiting activity of the pineal gland. In: The Pineal Gland. A Ciba Foundation Symposium, ed. by G.E.W. Wolstenholme and J. Knight. Edinburgh, Churchill Livingstone, 1971. pp.329-344 (Nutrition, anosmia and postnatal hormone treatment are considered as exteroceptive stimuli.)

van Overbeeke AP, McBride JR (Fisheries Research Board of Canada, Vancouver Lab., Vancouver 8, B.C., Canada; van Overbeeke: Dept. Biological Sciences, Simon Fraser Univ., Burnaby, B.C., Canada) Histological effects of 11-ketotestosterone, 17alpha-methyltestosterone, estradiol, estradiol cypionate and cortisol on the interrenal tissue, thyroid gland, and pituitary gland of gonadectomized sockeye salmon (Oncorhynchus nerka). J Fisheries Res Board Can 28(4):477-484, 1971

(8) Feedback Mechanisms:

Aschheim P (Lab. Physiologie Cellulaire, Collège de France, place Marcelin-Berthelot, Paris 5e, France) (Ovarian feedback in the hypothalamic regulation of LH in the senile female rat) La rétroaction ovarienne dans la régulation hypothalamique de la fonction gonadotrope LH de la Ratte senile. In: Neuroendocrinologie, ed. by J. Benoit and C. Kordon. Paris, Editions du C.N.R.S., 1970. (Fr) p. 363-376 (English summary.)

Baylé JD (Lab. Physiologie Animale, Faculté des Sciences, 34-Montpellier, France) (Activity of the disconnected pituitary in birds.) Activité de l'adeno-hypophyse déconnectée chez les oiseaux. In: Neuroendocrinologie, ed. by J. Benoit and C. Kordon. Paris, Editions du C.N.R.S., 1970. (Fr) p. 261-283 (Dependence of gonadotropin and prolactin activity on the hypothalamus is indicated. English summary.)

Faure JMA, Vincent JD, Dufy B, Bensch C (Lab. Physiopathologie, Faculté de Médecine, Place de la Victoire, 33-Bordeaux, France) (Effect of peripheral hormones on unit activities of hypothalamic neurons) Influence des hormones périphériques sur les activités unitaires neuroniques de l'hypothalamus. In: Neuroendocrinologie, ed. by J. Benoit and C. Kordon. Paris, Editions du C.N.R.S., 1970. (Fr) p. 427-440 (The effects of estrogen, progesterone, and cortisol on action potentials of hypothalamic neurons in rats, cats and rabbits are discussed. English summary.)

Gogan F (Lab. d'Histophysiologie, 4, ave. Gordon-Bennett, Paris 16e, France) (Feedback effect of the sex steroids on gonadotropic function in the bird) Rétroaction des stéroides sexuels sur les fonctions gonadotropes de l'oiseau. In: Neuroendocrinologie, ed. by J. Benoit and C. Kordon. Paris, Editions du C.N.R.S., 1970. (Fr) p. 351-362 (English summary.)

Howland BE, Akbar AM, Stormshak F (Stormshak: Dept. Animal Science, Oregon State Univ., Corvallis, OR 97331) Serum LH levels and luteal weight in ewes following a single injection of estradiol. Biol Reprod 5(1):25-29, 1971 (Estradiol was more effective in eliciting release of LH in ewes when the steroid was injected on day 4 of the estrus cycle than when injected on day 11.)

Martini L (Ist. Farmacologia e di Terapia, Univ. degli Studi, Milan, Italy) ("Short" feedback mechanisms) Les mécanismes de "rétro-action courte". In: Neuroendocrinologie, ed. by J. Benoit and C. Kordon. Paris, Editions du C.N.R.S., 1970. (Fr) p. 389-391 (English summary.)

Mazzuca M (Lab. d'Histologie II, Faculté de Médecine, 59-Lille, France) (Hormonal feedback and ultrastructural changes in the periportal terminals of the median eminence) Rétroaction hormonales et variations ultrastructurales des terminaisons périportales de l'éminence médiane. In: Neuroendocrinologie, ed. by J. Benoit and C. Kordon. Paris, Editions du C.N.R.S., 1970 (Fr) p. 145-151 (Ultrastructural variations after testosterone, cyproterone, castration, and other treatments are described. English summary.)

Pasteels JL, Ectors F (Faculté de Médecine, Lab. Histologie, rue aux Laines 97, B-1000 Bruxelles, Belgium) Identical localization of oestrogen- and progestogen-sensitive hypothalamic areas. In: Basic Actions of Sex Steroids on Target Organs, ed. by P. O. Hubinont, F. Leroy, and P. Galand. Basal, Switzerland, S. Karger, 1971. pp. 200-207 (Estrogen and progesterone had very similar actions on prolactin secretion and gonadotropic function when the steroids were implanted in the same hypothalamic areas in rats.)

Pasteels JL, Ectors F (Lab. d'Histologie, Faculté de Médecine et de Pharmacie, 97, rue aux Laines, Bruxelles, Belgium) (Level and mechanism of action of the gonadal steroids on the control of gonadotropins) Niveau et mode d'acti des stéroides génitaux sur le contrôle des fonctions gonadotropes. In: Neuroendocrinologie, ed. by J. Benoit and C. Kordon. Paris, Editions du C.N.R.S., 1970. (Fr) p. 339-349 (Studied in rats using a technique of implanting steroids in the brain and pituitary. English summary.)

Pelletier J (Lab. Physiologie de la Reproduction, 37-Nouzilly, France) (Effect of testosterone on LH secretion and release in the ram) Influence de la testosterone sur la secrétion et la libération de l-hormone lutéinisante (LH) chez le mâle. In: Neuroendocrinologie, ed. by J. Benoit and C. Kordon. Paris, Editions du C.N.R.S., 1970. (Fr) p. 329-337 (English summary.)

(9) Hormone Receptors and Binding Sites:

Joyan P, Samperez S, Thieulant ML, Mercier L (Lab. Neurobiologie Moléculaire, Équipe Associée au C.N.R.S. N° 119, U.E.R. Sciences Biologiques, Ave. du Général Leclerc, 35-Rennes, France) (Studies on the cytoplasmic [1,2-^{3}H] testosterone receptor in the rat anterior pituitary and hypothalamus) Étude du récepteur cytoplasmique de la [1,2-^{3}H] testostérone dans l'hypophyse et l'hypothalamus du rat. J Steroid Biochem 2(3):223-236, 1971 (Fr) (English summary.)

Pasteels JL, see under "Feedback mechanisms".

Presl J, Pospíšil J, Horský J (Inst. Care of Mother and Child, Prague, Czechoslovakia) Audoradiographic localization of radioactivity in rat brain and pituitary after injection of ^{3}H-estradiol during postnatal development. Endocr Exp 5(3):151-157, 1971 (Studies in female rats aged 5-50 days showed high uptake in the brain in the youngest age groups /5 and 10 days old/ but relatively low uptake in the pituitary for all ages studied.)

Stumpf WE, Baerwaldt C, Sar M (Dept. Anatomy, Lab. Reproductive Biology, Chapel Hill, NC) Autoradiographic cellular and subcellular localization of sexual steroids. In: Basic Actions of Sex Steriods on Target Organs, ed. by P.O. Hubinont, F. Leroy, and P. Galand. Basal, Switzerland, S. Karger, 1971. pp. 3-20 (Autoradiographic localization of tritiated steroids was made in gonadal, pituitary, brain, and other tissues of immature or castrated male and female rats.)

Tuohimaa P (Dept. Anatomy, Univ. Turku, Turku 3, Finland) The radioautographic localization of exogenous tritiated dihydrotestosterone, testosterone and oestradiol in the target organs of female and male rats. In: Basic Actions of Sex Steroids on Target Organs, ed. by P.O. Hubinont, F. Leroy, and P. Galand. Basal, Switzerland, S. Karger, 1971 pp. 208-214 (Hypothalamic, anterior pituitary and genital tissues were examined.)

(10) Drug Effects:

Boris A, see under "Methods and chemistry".

Britt, JH - Control of the bovine estrous cycle with melengestrol acetate. Ph.D. thesis, North Carolina State Univ. at Raleigh, 1971. 90 p. (Abstract in Dissertation Abst Int (B) 32(3):1804, 1971. Order from University Microfilm, order no. 71-24,324.)

Furuhjelm M (Dept. Obstetrics and Gynecology, Karolinska Inst., Sabbatsberg Hospital, Stockholm, Sweden) Amenorrhea following oral contraceptives. In: Current Problems in Fertility, ed. by A. Ingelman-Sundberg and N.O. Lunell. New York, Plenum Press, 1971. p. 165-169. (The possibility that oral contraceptives intervene with hypothalamic as well as ovarian function in women is discussed.)

George R (Dept. Pharmacology, Univ. California, Center for the Health Sciences, Los Angeles, CA 90024) Hypothalamus: anterior pituitary gland. In: Narcotic Drugs. Biochemical Pharmacology, ed. by D.H. Clouet. New York, Plenum Press, 1971. pp.283-299 (Survey of narcotic analgesic effects on anterior pituitary activity, release of ACTH, TSH, gonadotropins, growth hormone and prolactin.)

Giannina T, Butler M, Popick F, Steinetz B (Research Dept., CIBA Pharmaceutical Co., Summit, NJ 07901) Comparative effects of some steroidal and nonsteroidal antifertility agents in rats and hamsters. Contraception 3(5):347-359, 1971

Gomes WR, see under "General articles, reviews and books".

Heap PF, Lederis K, Neumann F (Medical School, University, Bristol, England) Effects of cyproterone on the ultrastructure of the rat adenohypophysis. Mem Soc Endocrinol 19:147-160, 1971. (Pituitaries of normal, castrated and cyproterone-treated rats were examined by electron microscopy.)

Heller S, Blobel R (Univ. Frauenklinik, Tübingen, Germany) FSH-releasing activity of clomiphenecitrat. In: Current Problems in Fertility, ed. by A. Ingelman-Sundberg and N.O. Lunell. New York, Plenum Press, 1971. p. 207-209. (Clomiphene citrate injected into ovariectomized estrogen-progesterone blocked rats resulted in increased plasma FSH but not LH activity.)

Jaffe RB, Midgley AR Jr., Goebelsmann U, Snyder DL (Dept. Obstetrics and Gynecology, Univ. Michigan, Ann Arbor, MI 48104) Regulation of human gonadotropins. IX. Effects of administration of low-dose cholomadinone acetate upon serum luteinizing hormone, follicle stimulating hormone, progesterone and urinary pregnanediol. Gynecol Invest 1(3):169-178, 1970

Kawashima S, Takasugi N (Zoological Inst., Faculty of Science, Univ. Tokyo, Tokyo, Japan) Induction of persistent estrus in adult rats by long-term caffeine administration. J Fac Sci Univ Tokyo (Zool) 12(1):37-45, 1970

Larsson-Cohn U (Dept. Obstetrics and Gynaecology, University Hospital, Uppsala, Sweden) Influence of low doses of gestagens on some pituitary-ovarian functions. In: Current Problems in Fertility, ed. by A. Ingleman-Sundberg and N.O. Lunell. New York, Plenum Press, 1971. p. 145-153. (Effects of administration of various gestagens on urinary LH, pregnanediol and estrogens and plasma progesterone were studied in women.)

Moltz H, Leon M, Numan M , Lubin M (Dept. Psychology, Univ. Chicago, Chicago, IL) Replacement of progesterone with a phenothiazine in the induction of maternal behavior in the ovariectomized nulliparous rat. Physiol Behav 6(6):735-737, 1971 (Perphenazine was able to replace progesterone in a withdrawal schedule which induces maternal behavior in estrogen-prolactin treated ovariectomized nulliparous rats.)

Poteat WL - The interaction of clomiphene citrate with estradiol and progesterone in the control of uterine glycogenesis and blastocyst implantation in the rat. Ph.D. thesis, Wake Forest Univ., 1971. 269 p. (Abstract in Dissertation Abst Int (B) 32(4):2314, 1971. Order from University Microfilms, order no.71-27,020.)

Rajalakshmi M, Singh SP, Prasad MRN (Dept. Zoology, Univ. Delhi, Delhi-7, India) Effects of microquantities of cyproterone acetate released through salastic capsules on the histology of the epididymis of the rat. Contraception 3(5):335-346, 1971

Stewart J, see under "Sex behavior and social influences".

Stewart J, see under "Sex behavior and social influences".

Vosbeck K, Keller PJ (Keller: Univ. -Frauenklinik, CH 8006 Zürich, Switzerland) The influence of antiandrogens on the excretion of FSH, LH and 17-ketosteroids in males. Horm Metab Res 3(4):273-276, 1971 (The effect of free cyproterone and cyproterone acetate on FSH, LH and 17-ketosteroid excretion was studied in normal men.)

Wrenn TR, Weyant JR, Fries GF, Bitman J (Animal Science Research Division, U.S. Dept. Agriculture, Beltsville, MD 20705) Effect of several dietary levels of o,p'-DDT on reproduction and lactation in the rat. Bull Environ Contam Toxicol 6(5):471-480, 1971 (No adverse effects on female reproduction were found.)

(11) Lesions, Stimulations, Stresses:

Albert D, Storlien LH, Albert JG, Mah CJ (Dept. Psychology, Univ. British Columbia, Vancouver, British Columbia, Canada) Obesity following disturbance of the ventromedial hypothalamus: a comparison of lesions, lateral cuts, and anterior cuts. Physiol Behav 7(2):135-141, 1971 (Weight gains following lateral cuts or complete lesions in the VMH were similar in male and female rats but anterior cuts produced weight gains in females only.)

Barnett SA, Smart JL, Stoddart RC (Dept. Zoology, Univ. Glasgow, Glasgow, Scotland) Total reproductive performance of captive house mice at two temperatures. J Zool (Lond) 163(Pt 4):443-450, 1971 (Reproductive performances of mice kept at either 21° C. or -3° C. were studied for periods up to 2 years.)

Gilman SC, Fischer GJ (Dept. Veterinary Physiology and Pharmacology, Washington State Univ., Pullman, WA 99163) The influence of light deprivation on implantation in the rat. Psychonom Sci 23(5):354-355, 1971

Iwasawa H, see under "Sex differentiation and development".

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Killian JM (Louisiana State Univ. and Agricultural and Mechanical College, Baton Rouge, LA) Effect of pineal extracts and hypothalamic lesions on the gonads of the golden hamster. Dissertation Abst (B) 32(2):1286-1287, 1971 (Abstract only.)

Little JC (Univ. Texas, Medical Branch, Galveston, TX) Pineal modification of compensatory ovarian hypertrophy in the golden hamster. Dissertation Abst (B) 32(2):676, 1971 (Abstract only.)

Masincupp FB - The effect of light on reproduction in the ewe. Ph.D. thesis, Kansas State Univ., 1971. 46 p. (Abstract in Dissertation Abst Int (B) 32(4):2369, 1971. Order from University Microfilms, order no. 71-26,613.)

Mead RA (Dept. Biological Sciences, Univ. Idaho, Moscow, ID 83843) Effects of light and blinding upon delayed implantation in the spotted skunk. Biol Reprod 5(2):214-220, 1971 (Exposure to light hastened nidation whereas blinding prolonged the preimplantation period.)

Mena F, Grosvenor CE (Inst. Investigaciones Biomedicas, Univ. Nacional Autonoma de Mexico, Ciudad Universitaria, Mexico) Release of prolactin in rats by exteroceptive stimulation: sensory stimuli involved. Horm Behav 2(2):107-116, 1971 (The results suggest that the olfactory sense plays a central role in regulating prolactin release in lactating rats.)

Menaker M, see under "Rhythms and cycles".

Munns TJ (St. Louis Univ., St. Louis, MO) Effect of different photoperiods on melatonin synthesis in the pineal gland of the canary (Serinus canarius) and testicular activity. Dissertation Abst (B) 32(2):1288-1289, 1971 (Abstract only.)

Pfaffmann C (Rockefeller Univ., New York, NY) Sensory reception of olfactory cues. Biol Reprod 4(3):327-343, 1971 (Insect and vertebrate mechanisms of olfaction are discussed. Includes studies in rats on unit responses in the olfactory bulb and preoptic areas to odors of urine from females in various hormonal states [normal, estrus, ovariectomized].)

Popović A, Jovović D (Inst. Biological Research, Beograd, Yugoslavia) The effect of testosterone-propionate, hydrocortisone-acetate and thyroxine on locally x-ray irradiated testes of rats hypophysectomized 24 hours after exposure.) Iugoslav Rhysiol Pharmacol 6(1):23-28, 1970

VanDemark NL, Free MJ (Animal Reproduction Teaching and Research Center, Ohio State Univ., Columbus, OH) Temperature effects. In: The Testis. Vol. III. Influencing factors, ed. by A.D. Johnson, W.R. Gomes, and N.L. VanDemark. New York, Academic Press, 1970 p. 233-312 (The effects of local and whole-body exposure to heat and cold on testicular function in various species are discussed.)

Vashchenko EA (A.A. Bogomoletz Inst. Physiology, Academy of Sciences of the Ukrainian SSR, Kiev, USSR) (Functional changes in neurosecretory cells of the anterior hypothalamus during stimulation of midbrain reticular formation) Neirofiziologiia 3(4):394-400, 1971 (Rus) (Studied in rats. English summary.)

Zarrow MX, see under "Sex behavior and social influences".

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Assenmacher I, Boissin J (Lab. Physiologie Animale, Faculté de Sciences, 34-Montpellier, France) (Circannual and circadian rhythms of adrenal-cortical and thyroid function in relation to the photosexual reflex) Rythmes circannuels et circadiens du fonctionnement cortico-surrenalien et thyroidien en relation avec le reflexe photo-sexuel. In: Neuroendocrinologie, ed. by J. Benoit and C. Kordon. Paris, Editions du C.N.R.S., 1970. (Fr) p. 405-423 (English summary.)

Brecht G (Zoological Lab., Univ. Nijmegen, Nijmegen, The Netherlands) An annual cycle of some correlated phenomena in the life of the frog, Rana esculenta. J Interdiscipl Cycle Res 2(2):147-148, 1971 (Ion concentrations pituitary activity and mating are among the phenomena correlated.)

Hardeland G, see under "General and review articles and books".

Johansson EDB, Wide L, Gemzell C (University Hospital, Univ. Uppsala, Uppsala, Sweden) Plasma progesterone and 17-alpha-hydroxyprogesterone measured by a competitive protein binding technique and related to the oestrogen excretion and LH level around ovulation in the normal menstrual cycle. In: Research on Steroids, ed. by M. Finkelstein, A. Klopper, C. Conti, and C. Cassano. Oxford, Pergamon Press, 1970. p. 297-302. (In women.)

ihlström JE (Inst. Zoophysiology, Uppsala, Sweden) A male sexual cycle. In: Current Problems in Fertility, ed. by A. Ingleman-Sundberg and N.O. Lunell. New York, Plenum Press, 1971. p. 50-54 (Discussed primarily from observations in rabbits and bulls.)

orenman S, see under "Methods and chemistry".

odge JR, Salisbury GW (Dept. Dairy Science, Univ. Illinois, Agricultural Experiment Station Urbana, IL) Seasonal variation and male reproductive efficiency. In: The Testis. Vol. III. Influencing factors, ed. by A.D. Johnson, W.R. Gomes, and N.L. VanDemark. New York, Academic Press, 1970. p. 139-167 (Gross effects of season on male reproduction are described with respect to cattle, swine, sheep, birds, horses, laboratory, and other animals.)

enaker M (Dept. Zoology, Univ. Texas, Austin, TX 78712) Rhythms, reproduction, and photoreception. Biol Reprod 4(3):295-308, 1971 (Extraretinal photoreceptors in the brain of the house sparrow, and their influence on the regulation of circadian rhythms and reproduction are discussed.)

ndel RD (Purdue Univ., Lafayette, IN) Quantitative changes and inter-relationships between reproductive hormones during the reproductive cycle of the bovine. Dissertation Abst (B) 32(2):645-646, 1971 (Abstract only.)

esen JW, Meyer RK, Wolf RC (Univ. Wisconsin Regional Primate Research Center, Madison, WI 53706) The effect of season on occurrence of ovulation in the rhesus monkey. Biol Reprod 5(2):111-114, 1971 (The results suggest that some monkeys have an anovulatory season in summer, even in the absence of seasonal light and temperature variations.)

(13) Sex Behavior and Social Influences:

derson CO, Zarrow MX, Fuller GB, Denenberg VH (Dept. Biological Sciences and Psychology, Purdue Univ., Lafayette, IN 47907; Anderson: Delta Regional Primate Center, Covington, LA 70433) Pituitary involvement in maternal-nest building in the rabbit. Horm Behav 2(3):183-189, 1971 (Hypophysectomy abolished maternal nest building in pregnant and ovariectomized rabbits.)

on C, Roos J, Roos M (Inst. d'Histologie, Faculté de Médecine, Univ. Strasbourg, 18-Rue des Pontonniers, Strasbourg 67, France) Olfactory stimuli and their function in the regulation of the duration of the oestrous cycle in the rat. J Interdiscipl Cycle Res 2(2):239-246, 1971 (The distribution of 4-day and 5-day cycles in individually caged or grouped animals and the role of olfactory stimuli in regulating the duration of the estrus cycle were studied.)

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Banerjee U (Dept. Pharmacology, Faculty of Medicine, Univ. Malaya, Kuala Lumpur, Malaysia) Influence of some hormones and drugs on isolation-induced aggression in male mice. Commun Behav Biol (A) 6(3-4):163-170, 1971 (Included are studies on the effects of testosterone and estradiol.)

Beyer C, Komisaruk B (Dept. Investigacion Cientifica, Inst. Mexicano del Seguro Social, Apdo, Postal 73-032, Mexico 73, D.F.) Effects of diverse androgens on estrous behavior, lordosis reflex, and genital tract morphology in the rat. Horm Behav 2(3):217-225, 1971 (The results suggest that the structural requirements for an androgen to stimulate sexual behavior differ from those determining uterine growth responses.)

Blum SL, Thiessen DD (Dept. Psychology, Univ. Texas, Austin, TX 78712; Blum: Dept. Psychiatry, Stanford Univ. School of Medicine, Stanford Medical Center, Stanford, CA 94305) The effect of different amounts of androgen on scent marking in the male Mongolian gerbil. Horm Behav 2(2):93-105, 197

Brain PF (Dept. Zoology, Univ. Sheffield, Yorkshire, England) Some physiological and behavioral consequences of hormonal modifications in the early life of rodents--a review. Commun Behav Biol (A) 6(1):7-18, 1971

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Cannizzaro G, Provenzano PM, Nigito S (Dept. Pharmacology, Univ. Palermo, Palermo, Italy) The effects of castration and of progestin-oestrogen combinations upon avoidance conditioning in female rats. Pharmacol Res Commun 2(4):267-276, 1970 (The effects of castration on avoidance conditioning were reversed by progestin-estrogen combination and by methylphenidate.)

Carter CS, Schein MW (Dept. Biology, West Virginia Univ., Morgantown, WV 26506) Sexual receptivity and exhaustion in the female golden hamster. Horm Behav 2(3):191-200, 1971 (Sexual receptivity was related to the amount of mating stimulation and time from onset of stimulation.)

Christian JJ, see under "General articles, reviews and books".

Diakow C (Rockefeller Univ., York Ave., New York, NY 10021) Effects of genital desensitization on mating behavior and ovulation in the female cat. Physiol Behav 7(1):47-54, 1971 (The results suggest that vaginal sensations guide female behavioral responses to intromission and that ovulation can be triggered by impulses from the vagina received during intromission.)

Edwards DA, Burge KG (Dept. Psychology, Emory Univ., Atlanta, GA 30322) Estrogenic arousal of aggressive behavior and masculine sexual behavior in male and female mice. Horm Behav 2(3):239-245, 1971 (Estrogen administered to castrated male mice enhanced aggressive and copulatory behavior but had no effect in ovariectomized females.)

Erpino MJ, Chappelle TC (Dept. Biological Sciences, Chico State College, Chico, CA 95926) Interactions between androgens and progesterone in mediation of aggression in the mouse. Horm Behav 2(3):265-272, 1971 (Testosterone and androstenedione exerted strong effects on aggressive behavior and these effects were inhibited by progesterone.)

rd E, Larsson K (Larsson: Medicinaregatan 3, S-413 46 Goteborg, Sweden) Climbing behavior patterns in prepubertal rats. Effects of hormones, rearing conditions, and sensory cues. Brain Behav Evol 4(2):151-161, 1971 (Included is a study of the effects of gonadal hormones on climbing behavior.)

rt BL, Haugen CM (School of Veterinary Medicine, Univ. California, Davis, CA 95616) Scent marking and sexual behavior maintained in anosmic male dogs. Commun Behav Biol (A) 6(2):131-135, 1971 (Male dogs, experienced sexually and in scent marking, had no change in sexual behavior but did show reduced scent marking activity after being made permanently anosmic.)

hn EO (Dept. Physiology, Univ. Alberta, Edmonton, Alberta, Canada) Attempted hormonal induction of brood patches and broodiness in ducks. Auk 88(3):674-676, 1971 (Estradiol and prolactin were injected into female ducks.)

cas LA (Claremont Graduate School and University Center, Claremont, CA) Androgen level and the patterns of aggressive behavior and activity in castrated isolated male mice. Dissertation Abst (B) 32(2):1246, 1971 (Abstract only.)

nia AR (Univ. Nebraska, Lincoln, NB) The relationship of androgenic hormones and conditioned pecking to the dominance hierarchy in pigeons. Dissertation Abst (B) 32(2):1246, 1971 (Abstract only.)

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ole RG (Univ. California, Berkeley, CA) Hormonal control of receptivity in female quail (Coturnix coturnix japonica). Dissertation Abst (B) 32(2):1250-1251, 1971 (Abstract only.)

.rot E, Goyens J (Lab. Psychologie Expérimentale, 117, Ave. Ad. Buyl, -1050, Brussels, Belgium; Noirot: C.N.R.S.-I.N.P. 6, 31, Chemin Joseph iguier, F-13 Marseille, 9e, France) Changes in maternal behavior during estation in the mouse. Horm Behav 2(3):207-215, 1971 (Only activities epending on olfactory stimulation were affected by gestation.)

ne AP, Swanson HH (Dept. Anatomy, Univ. Birmingham, Birmingham, England) ormonal control of aggressive dominance in the female hamster. Physiol ehav 6(4):355-357, 1971 (The effects of ovariectomy and of administered ex steroids [progesterone, testosterone, estradiol] were reported.)

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Powers JB (Univ. California, Berkeley, CA) Hormonal regulation of sexual receptivity in the female rat. Dissertation Abst (B) 32(2):767, 1971 (Abstract only.)

Stewart J, Pottier J, Kaczender-Henrik E (Sir George Williams Univ., Montreal 107, Quebec, Canada) Male copulatory behavior in the female rat after perinatal treatment with an antiandrogenic steroid. Horm Behav 2(3):247-254, 1971 (Perinatal treatment of female rats with cyproterone delayed mal copulatory behavior in response to testosterone treatment when adult.)

Stewart J, Kaczender-Henrik E (Dept. Psychology, Sir George Williams Univ., Montreal 107, Quebec, Canada) Male copulatory behavior in the male rat after perinatal treatment with an antiandrogenic steroid. Horm Behav 2(3):255-264, 1971 (Perinatal treatment of male rats with cyproterone reduced the proportion of animals displaying the ejaculatory pattern but not other aspects of male copulatory behavior.)

Terkel J, Rosenblatt JS (Inst. Animal Behavior, Rutgers Univ., Neward, NJ 071 Terkel: Dept. Anatomy, UCLA School of Medicine, Los Angeles, CA 90024) Aspects of nonhormonal maternal behavior in the rat. Horm Behav 2(2):161-171, 1971 (Cross-transfusion of blood from maternally behaving rats [pup-induced or spontaneous] to virgins failed to influence the rate of induction of maternal behavior in the recipients.)

Whalen RE, Luttge WG (Dept. Psychobiology, Univ. California, Irvine, CA 92664 Testosterone, androstenedione and dihydrotestosterone: effects on mating behavior of male rats. Horm Behav 2(2):117-125, 1971 (Mating behavior of castrated male rats was maintained by testosterone and androstenedione but not by dihydrotestosterone.)

Zarrow MX, Gandelman R, Denenberg VH (Dept. Biobehavioral Sciences, Univ. Connecticut, Storrs, CT 06268) Lack of nest building and maternal behavior in the mouse following olfactory bulb removal. Horm Behav 2(3):227-238, 1971 (Nest building failure after bulbectomy was partially restored by progesterone but not by exposure to cold.)

(14) Sex Differentiation and Development:

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Bell DD, Zucker I (Dept. Psychology, Univ. California, Berkeley, CA) Sex differences in body weight and eating: organization and activation by gonadal hormones in the rat. Physiol Behav 7(1):27-34, 1971 (The effects of early [5 days of age] estrogenization or androgenization on adult eating and body weight differences were examined.)

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eorge DT - Some of the effects of neonatal testosterone propionate treatment upon the pituitary and serum levels of FSH and LH in the albino rat: as determined by the radioimmunoassay technique. Ph.D. thesis, Ohio State Univ., 1971, 96 p. (Abstract in Dissertation Abst Int (B) 32(3):1806, 1971. Order from University Microfilms, order no. 71-22,479.)

asawa H, Oyanagi H (Biological Inst., Faculty Science, Niigata Univ., Niigata, Japan) (Sex differentiation of the gonad and its modification by developmental environment in the frog, Rana tagoi) Zool Mag (Tokyo) 80(7):235-241, 1971 (Jap) (Differences in first-year gonadal differentiation and development between frogs raised in the laboratory and those in their natural habitat may be attributed to temperature differences of the two environments. English summary.)

ncl FA, Zbuzkova V (Population Council, Rockefeller Univ., New York, NY 10021; Kincl: Brookdale Hospital Centers, New York, NY) Neonatal sterilization of rodents with steroid hormones. 3. Influence of neonatal treatment with testosterone propionate or estradiol benzoate on steroids in plasma of adult male rats. J Steroid Biochem 2(3): 215-221, 1971. (Neonatal estrogen or androgen treatment of male rats altered their plasma testosterone picture in adulthood.)

son LJG - Differential effects of prenatal and postnatal androgenization on the reproductive morphology and sexual behavior of the rat. Ph.D. thesis, Univ. Oregon, 1971. 209 p. (Abstract in Dissertation Abst Int (B) 32(3):1395, 1971. Order from University Microfilms, order no. 71-23, 125.)

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alen RE (Dept. Psychobiology, Univ. California, Irvine, CA) Male-female differences in sexual behavior: a continuing problem. In: Brain Development and Behavior, ed. by M.B. Sterman, D.J. McGinty, and A.M. Adinolfi. New York, Academic Press, 1971. pp.297-305 (Effects of neonatal gonadal hormone manipulations on sexual behavior in the rat are discussed.)

CYCLIC NUCLEOTIDES

ADENOSINE CYCLIC 3',5' MONOPHOSPHATE

The effect of prostaglandins on the adenyl cyclase of the bovine corpus luteum. Marsh J.
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Br J Pharmacol 42:666P-668P, Aug 71

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Interaction between adenine nucleotides and 3-phosphoglyceraldehyde dehydrogenase. II. A study of the mechanism of catalysis and metabolic control of the multi-functional enzyme. Francis SH, et al.
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On the equilibrium of the adenylate cyclase reaction. Hayaishi O, et al. **J Biol Chem** 246:5840-3, 25 Sep 71

Hormonal regulation of protein kinases and adenosine 3',5'-monophosphate-binding protein in developing mammary gland. Majumder GC, et al.
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The reversibility of the adenylate cyclase reaction. Takai K, et al. **J Biol Chem** 246:5843-5, 25 Sep 71

8-substituted theophyllines. In vitro inhibition of 3',5'-cyclic adenosine monophosphate phosphodiesterase and pharmacological spectrum in mice. Goodsell EB, et al. **J Med Chem** 14:1202-5, Dec 71

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Inhibition by papaverine of 3',5'-nucleotide-phosphodiesterase (E.C.3.1.4.1.) from bovine uterus muscle. Rufeger U, et al.
Naunyn Schmiedebergs Arch Pharmakol 270:428-30, 1971

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Cyclic adenosine monophosphate in brain areas: microwave irradiation as a means of tissue fixation. Schmidt MJ, et al. **Science** 173:1142-3, 17 Sep 71

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Factors which influence cyclic AMP formation and degradation in an islet cell tumor of the Syrian hamster. Rosen OM, et al. **Arch Biochem Biophys** 146:660-3, Oct 71

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Effects of lithium on brain adenyl cyclase activity. Forn J, et al. **Biochem Pharmacol** 20:2773-9, Oct 71

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BLOOD

Effects of prostaglandins on function and cyclic AMP levels of human blood platelets. Robison G, et al. **Ann NY Acad Sci** 180:324-31, 30 Apr 71

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Chemical synthesis and biological activity of 8-substituted adenosine 3',5'-cyclic monophosphate derivatives. Muneyama K, et al. **Biochemistry** 10:2390-5, 8 Jun 71

HISTORY

Nobel prize. (Sutherland EW), **Br Med J** 4:188, 23 Oct 71

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The immunologic and adrenergic aspects of asthma. Dockhorn RJ. **Ann Allergy** 29:539-48, Oct 71 (48 ref.)

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Probl Endokrinol (Mosk) 17:116-22, Jan-Feb 71 (82 ref.) **(Rus)**

[Current problems in the clinical use of beta-adrenergic system blockaders in endocrinology]

Tikhonova EP, et al.
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METABOLISM

[Water and electrolyte unbalance in endocrine diseases] Shimizu N, et al.
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THERAPY

Hypophysectomy in endocrine disorders. Rand RW.
Clin Neurosurg 17:226-49, 1970 (36 ref.)
[Treatment of endocrinopathy in the obstetrics and gynecology] Arai K.
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ENDOCRINE GLANDS

PHYSIOLOGY

[The endocrine system and seasonal biological phenomena in birds] Dol'nik VR.
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ESTRIOL

URINE

[Function of the feto-placental unit and estriol] Iwasaki H, et al.
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ESTROGENS

METABOLISM

Gonadotrophin and steroid interrelationships during the normal menstrual cycle. Bell ET, et al.
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The effect of steroid hormones on self-stimulation, central and peripheral. Campbell HJ.
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EXOPHTHALMOS

SURGERY

Orbital decompression for exophthalmos. Hamby WB.
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FSH

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[Secretion dynamics of luteinizing hormone (LH) and follicle stimulating hormone (FSH) and their anomaly] Tomoda Y, et al.
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GLUCOCORTICOIDS

THERAPEUTIC USE

Effectiveness of adrenal corticosteroids in the management of severe bacterial infections. Klastersky J.
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[Drugs used in the treatment of rheumatic fever] Wilkoszewski E. Wiad Lek 24:1261-7, 1 Jul 71 (Pol)

GOITER

DIAGNOSIS

Scintigraphic evaluation of nodular goiter. Charkes ND.
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GOITER, EXOPHTHALMIC

RADIOTHERAPY

Treatment of diffuse toxic goiter with 131-I. Dworkin HJ. Semin Nucl Med 1:399-410, Oct 71 (32 ref.)

GONADOTROPINS, PITUITARY

METABOLISM

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PHYSIOLOGY

[Neurohumoral regulation of sexual maturation in vertebrates] Vunder PA.
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HERMAPHRODITISM

Natural sex reversal in vertebrates. Chan ST.
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HORMONES

ANALYSIS

Radioimmunoassay of hormones and a critical review of its application to angiotensin assay. Deodhar SD, et al.
CRC Crit Rev Clin Lab Sci 1:119-34, Jan 70 (80 ref.)

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Morphology, histochemistry, and biochemistry of human ovarian compartments and steroid hormone synthesis. Guraya SS.
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[Synthesis and the future of peptide hormones] Yajima H. Jap J Clin Med 29:1796-802, Oct 71 (34 ref.) (Jap)

PHYSIOLOGY

[Fatty acid release and hormones] Fujii S, et al.
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[Obesity and hormones] Kawai K.
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HYPERPARATHYROIDISM

COMPLICATIONS

Primary hyperparathyroidism and peptic ulcer. Black BM. Surg Clin North Am 51:955-60, Aug 71 (16 ref.)
[The nephropathic form of primary hyperparathyroidism] Starostin LN.
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DIAGNOSIS

The diagnosis of hyperparathyroidism (or what to do until the immunoassay comes). Raisz LG.
N Engl J Med 285:1006-10, 28 Oct 71 (38 ref.)

THERAPY

[Treatment of parathyroid diseases] Fujita T.
Clin Endocrinol (Tokyo) 19:181-6, Mar 71 (56 ref.) (Jap)

HYPERTHYROIDISM

RADIOTHERAPY

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THERAPY

[Treatment of thyroid diseases] Miyai K.

Clin Endocrinol (Tokyo) 19:175-80, Mar 71 (39 ref.) (Jap)

HYPOPHYSECTOMY

Hypophysectomy in endocrine disorders. Rand RW.
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HYPOTHALAMUS

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HYPOTHYROIDISM

THERAPY

[Treatment of thyroid diseases] Miyai K.
Clin Endocrinol (Tokyo) 19:175-80, Mar 71 (39 ref.) (Jap)

LH

SECRETION

[Secretion dynamics of luteinizing hormone (LH) and follicle stimulating hormone (FSH) and their anomaly] Tomoda Y, et al.
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MYXEDEMA

PHYSIOPATHOLOGY

Severely impaired consciousness in myxedema--a review. Royce PC.
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NEUROSECRETORY SYSTEMS

CYTOLOGY

[Electrophysiological studies of the neurosecretory cell] Yagi K, et al.
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PHYSIOLOGY

[Electrophysiological studies of the neurosecretory cell] Yagi K, et al.
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CHEMICALLY INDUCED

Osteomalacia and anticonvulsant drugs.
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OVARY

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Morphology, histochemistry, and biochemistry of human ovarian compartments and steroid hormone synthesis. Guraya SS.
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PARATHYROID HORMONE

SECRETION

[Parathyroid hormone (PTH) and calcitonin] Morii H.
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PHEOCHROMOCYTOMA

[Adrenal pheochromocytoma] Yamada R.
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Ultrastructural pathology of adrenal medullary tumors. Tannenbaum M. Pathol Annu 5:145-71, 1970 (33 ref.)

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[The pituitary-adrenal system and vitamin A (review of the literature)] Natanson AO, et al.
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PITUITARY HORMONE RELEASING FACTORS

PHYSIOLOGY

[Growth hormone] Sawano S.
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PITUITARY HORMONES, ANTERIOR

PHYSIOLOGY

[Some mechanisms of the primary action of hormones] Voitkevich AA, et al.
Usp Sovrem Biol 71:444-59, May-Jun 71 (143 ref.) (Rus)

PITUITARY HORMONES, POSTERIOR

SECRETION

[Mode of posterior pituitary hormone release] Ishida A. Saishin Igaku 26:656-64, Apr 71 (48 ref.) (Jap)

PITUITARY NEOPLASMS

SURGERY

Surgery of sellar and parasellar tumors. Fager CA.
Clin Neurosurg 17:209-25, 1970 (5 ref.)

PLACENTA

METABOLISM

[Mechanisms of placental drug transport] Abucewicz A, et al. Pol Tyg Lek 26:1174-6, 26 Jul 71 (37 ref.) (Pol)

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[Function of the feto-placental unit and estriol] Iwasaki H, et al.
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PLACENTAL LACTOGEN

[Human placental lactogen--its significance as the "metabolism-regulating hormone" in the maternal body] Tojo S, et al.
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BIOSYNTHESIS

Biosynthesis of pregnane derivatives. Burstein S, et al.
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THERAPEUTIC USE

[Progestagens and several aspects of their use in clinical practice] Merabishvili ML, et al.
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PROGESTERONE

PHARMACODYNAMICS

The effect of steroid hormones on self-stimulation, central and peripheral. Campbell HJ.
Steroidologia 1:8-24, 1970 (31 ref.)

PROLACTIN

PHYSIOLOGY

[Role of prolactin in experimental breast cancer. 2] Nagasawa H.
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[Role of prolactin in experimental breast cancer. 1] Nagasawa H.
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Growth and development. Heald FP.
Clin Obstet Gynecol 14:327-37, Jun 71 (5 ref.)
[Neurohumoral regulation of sexual maturation in vertebrates] Vunder PA.
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RENIN

BLOOD

[Diagnostic value of renin analysis] Werning C, et al.
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METABOLISM

[The renin-angiotensin-aldosterone system in arterial hypertension] Bar-Andziak E, et al.
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SEX CHROMOSOME ABNORMALITIES

COMPLICATIONS

[Chromosome Y abnormalities and their psychopathological aequelae] Krzyżowski J, et al.
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Unusual sex chromosome inheritance in mammals. Fredga K.
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[Chromosome Y abnormalities and their psychopathological aequelae] Krzyżowski J, et al.
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SEX DETERMINATION

Genetic basis for the determination of sex. Beatty RA.
Philos Trans R Soc Lond [Biol Sci] 259:3-13, 6 Aug 70 (27 ref.)
Natural sex reversal in vertebrates. Chan ST.
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Hormonal differentiation of the developing central nervous system with respect to patterns of endocrine function. Harris GW.
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Hormonal factors in the sex differentiation of the mammalian foetus. Jost A.
Philos Trans R Soc Lond [Biol Sci] 259:119-30, 6 Aug 70 (60 ref.)

SEX HORMONES

PHYSIOLOGY

Hormonal factors in the sex differentiation of the mammalian foetus. Jost A.
Philos Trans R Soc Lond [Biol Sci] 259:119-30, 6 Aug 70 (60 ref.)
[Protein metabolism and sex hormones--recent trends] Kusunoki T.
Clin Endocrinol (Tokyo) 19:676-84, Sep 71 (53 ref.) (Jap)
[Lipogenesis and hormones] Nakamura M, et al.
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[Some mechanisms of the primary action of hormones] Voitkevich AA, et al.
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SOMATOTROPIN

PHYSIOLOGY

[Growth hormone and carbohydrate metabolism] Oneda A.
Clin Endocrinol (Tokyo) 19:596-604, Aug 71 (84 ref.) (Jap)

SECRETION

[Growth hormone] Sawano S.
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STEROIDS

BIOSYNTHESIS

Morphology, histochemistry, and biochemistry of human ovarian compartments and steroid hormone synthesis. Guraya SS.
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TESTICULAR NEOPLASMS

Embryonal carcinoma of the testis. Pierce GB, et al.
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TESTIS

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The assessment of organ function--the testis. Federman DD.
N Engl J Med 285:901-3, 14 Oct 71 (3 ref.)

THYROCALCITONIN

[Current topics on clinical chemistry] Matsumura Y.
Jap J Clin Pathol 19:87-90, Feb 71 (44 ref.) (Jap)

BLOOD

[Immunoassay of calcitonin] Orimo H.
Saishin Igaku 26:1116-23, Jun 71 (13 ref.) (Jap)

PHYSIOLOGY

Thyrocalcitonin and its role in calcium regulation in mammals. Hirsch PF.
J Exp Zool 178:139-49, Sep 71 (48 ref.)

SECRETION

[Parathyroid hormone (PTH) and calcitonin] Morii H.
Jap J Clin Med 29:1724-33, Oct 71 (59 ref.) (Jap)

THERAPEUTIC USE

[Therapeutic application of calcitonin] Fujita T.
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THYROID DISEASES

DIAGNOSIS

The diagnostic use of radionuclides in the thyroid disorders of childhood. Hayek A, et al.
Semin Nucl Med 1:334-44, Jul 71 (40 ref.)
Radioiodine dosimetry and the use of radioiodines other than 131 I in thyroid diagnosis. Wellman HN, et al. **Semin Nucl Med 1:356-78, Jul 71 (35 ref.)**

PHYSIOPATHOLOGY

[Thyroid diseases and clinical studies of the lung] Onuki M.
Saishin Igaku 26:1694-8, Sep 71 (32 ref.) (Jap)

THYROID GLAND

ENZYMOLOGY

[Some observations on thyroid peroxidase] Nagataki S, et al.
Clin Endocrinol (Tokyo) 19:415-21, Jun 71 (41 ref.) (Jap)

PHYSIOLOGY

Thyrocalcitonin and its role in calcium regulation in mammals. Hirsch PF.
J Exp Zool 178:139-49, Sep 71 (48 ref.)

THYROID GLAND FUNCTION TESTS

Scintigraphic evaluation of nodular goiter. Charkes ND.
Semin Nucl Med 1:316-33, Jul 71 (17 ref.)

In vitro tests of thyroid function. Murphy BE.
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Radioiodine dosimetry and the use of radioiodines other than 131 I in thyroid diagnosis. Wellman HN, et al. Semin Nucl Med 1:356-78, Jul 71 (35 ref.)

THYROID HORMONES

PHYSIOLOGY

Hormonal regulation of metamorphosis. Tata JR.
Symp Soc Exp Biol 25:163-81, 1971 (67 ref.)

[Protein metabolism and thyroid hormones] Suzuki M.
Clin Endocrinol (Tokyo) 19:699-706, Sep 71 (79 ref.) (Jap)

THYROID NEOPLASMS

[Medullary cancer of the thyroid] Prost A, et al.
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[Thyroid diseases and clinical studies of the lung] Onuki M.
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DIAGNOSIS

An approach to diagnosis and therapy of thyroid tumors. Selenkow HA, et al.
Semin Nucl Med 1:461-73, Oct 71 (62 ref.)

RADIOTHERAPY

Radioiodine therapy of thyroid cancer. Pochin EE.
Semin Nucl Med 1:503-15, Oct 71 (29 ref.)

THERAPY

An approach to diagnosis and therapy of thyroid tumors. Selenkow HA, et al.
Semin Nucl Med 1:461-73, Oct 71 (62 ref.)

THYROTROPIN

SECRETION

[Regulation of thyroid stimulating hormone (TSH) secretion and its anomaly] Fukuchi M, et al.
Jap J Clin Med 29:1674-80, Oct 71 (40 ref.) (Jap)

THYROTROPIN RELEASING FACTOR

CHEMICAL SYNTHESIS

[Thyrotropin releasing hormone and its clinical application--with special reference to synthetic TRH] Miyai K, et al.
Clin Endocrinol (Tokyo) 19:427-34, Jun 71 (26 ref.) (Jap)

TRIIODOTHYRONINE

BLOOD

[Physiological and pathophysiological significance of triiodothyronine] Inada M.
Clin Endocrinol (Tokyo) 19:422-6, Jun 71 (19 ref.) (Jap)

VASOPRESSIN

METABOLISM

[The metabolism of the antidiuretic hormone] Gelier LI.
Probl Endokrinol (Mosk) 16:117-20, Sep-Oct 70 (61 ref.) (Rus)

PHARMACODYNAMICS

[ACTH releasing action of vasopressin] Hiroshige T.
Saishin Igaku 26:697-705, Apr 71 (57 ref.) (Jap)

PHYSIOLOGY

[ADH and water-electrolyte metabolism] Yoshida N.
Clin Endocrinol (Tokyo) 19:271-5, Apr 71 (30 ref.) (Jap)

SECRETION

[Regulation of antidiuretic hormone (ADH) secretion and its anomaly] Murase T, et al.
Jap J Clin Med 29:1690-7, Oct 71 (47 ref.) (Jap)

VITAMIN D

METABOLISM

The metabolism and function of vitamin D. DeLuca HF.
Trans Stud Coll Physicians Phila 39:1-12, Jul 71 (43 ref.)

PHARMACODYNAMICS

Intestinal calcium transport mediated by vitamin D.
Nutr Rev 29:41-3, Feb 71

METHOD SECTION

This section is meant to be an alerting device for articles which describe: 1) new methods or techniques, 2) modifications of existing methods or 3) comparisons of different methods. For methods on a particular substance or for a specific type of method, see the subject index or the subject section (particularly the sub-headings; analysis, blood, cerebrospinal fluid, chemical synthesis, isolation & purification, and urine).

ACTIVATION ANALYSIS

Determination of iodine and bromine in biological materials by neutron-activation analysis. Ono S. **Analyst** 96:423-6, Jun 71
*ACTIVATION ANALYSIS/ *BROMINE, urine/ HUMAN/ *IODINE, urine/ METHODS/ VEGETABLES, analysis

AUTOANALYSIS

Automated hydrolysis of total estrogens in urine from pregnant women. Muir GG, et al. **Clin Chem** 17:1007-9, Oct 71
AUTOANALYSIS/ COMPARATIVE STUDY/ *ESTROGENS, urine/ FEMALE/ FLUORESCENCE/ FLUOROMETRY/ GLUCOSE/ GLYCOSURIA/ HUMAN/ HYDROGEN-ION CONCENTRATION/ HYDROLYSIS/ METHODS/ *PREGNANCY/ TIME FACTORS

A facilitated fractionation of stable urinary estrogens before their automated fluorometric assay. Strickler HS, et al. **Clin Chem** 17:1186-90, Dec 71
ADOLESCENCE/ ADULT/ AMENORRHEA, diagnosis/ AMENORRHEA, urine/ AUTOANALYSIS/ CHEMISTRY, CLINICAL, instrumentation/ CHILD/ CHROMATOGRAPHY, ION EXCHANGE/ *ESTRADIOL, urine/ *ESTRIOL, urine/ *ESTRONE, urine/ ETHERS, analysis/ ETHYL ETHER/ FEMALE/ FLUOROMETRY/ GEL FILTRATION/ HUMAN/ HYDROLYSIS/ MALE/ MATHEMATICS/ METHODS/ PREGNANCY/ TIME FACTORS

BIOLOGICAL ASSAY

A radioligand assay for plasma unconjugated estriol in normal and abnormal pregnancies. Tulchinsky D, et al. **Am J Obstet Gynecol** 111:311-8, 1 Oct 71
ABORTION, THERAPEUTIC/ BIOLOGICAL ASSAY/ BLOOD GROUP INCOMPATIBILITY, blood/ CHROMATOGRAPHY/ CIRCADIAN RHYTHM/ ERYTHROBLASTOSIS, FETAL, blood/ *ESTRADIOL, blood/ *ESTRIOL, blood/ ESTRONE/ FEMALE/ FETAL DEATH, blood/ FETOMATERNAL TRANSFUSION/ HUMAN/ HYPERTONIC SOLUTIONS/ MENSTRUATION/ METHODS/ POSTURE/ *PREGNANCY/ *PREGNANCY COMPLICATIONS, blood/ PROTEINS/ RABBITS/ RH FACTORS/ SODIUM CHLORIDE/ TRITIUM/ UTERUS

Studies on the analysis and metabolism of the prostaglandins. Anggård E. **Ann NY Acad Sci** 180:200-17, 30 Apr 71 (40 ref.)
ALCOHOL OXIDOREDUCTASES/ ALCOHOL OXIDOREDUCTASES, isolation & purification/ AMMONIUM SULFATE/ ANIMAL EXPERIMENTS/ BIOLOGICAL ASSAY/ CHROMATOGRAPHY/ CHROMATOGRAPHY, GAS/ CHROMATOGRAPHY, ION EXCHANGE/ CYTOPLASM, metabolism/ DOGS/ ELECTROPHORESIS, DISK/ EVALUATION STUDIES/ GEL FILTRATION/ GUINEA PIGS/ HUMAN/ HYDROGEN-ION CONCENTRATION/ IN VITRO/ KIDNEY, analysis/ KIDNEY, enzymology/ KINETICS/ LUNG, enzymology/ LUNG, metabolism/ LYMPH, analysis/ MALE/ MASS SPECTRUM ANALYSIS/ METHODS/ MODELS, CHEMICAL/ NAD/ OSCILLOMETRY/ PRECIPITATION/ PROSTAGLANDINS/ *PROSTAGLANDINS, analysis/ PROSTAGLANDINS, biosynthesis/ PROSTAGLANDINS, blood/ PROSTAGLANDINS, cerebrospinal fluid/ PROSTAGLANDINS, isolation & purification/ PROSTAGLANDINS, metabolism/ RABBITS/ REVIEW/ SEMEN, analysis/ SPECTROPHOTOMETRY/ SWINE

A radiochemical renin assay. Mendelsohn FA, et al. **Biochem J** 121:241-4, Jan 71
ANGIOTENSIN, analysis/ BIOLOGICAL ASSAY/ CARBON ISOTOPES/ CHROMATOGRAPHY, PAPER/ METHODS/ PEPTIDES/ RADIOCHEMISTRY/ RADIOMETRY/ *RENIN, analysis/ RENIN, pharmacodynamics/ TIME FACTORS/ VALINE

Determination of calcitonin in plasma by bioassay. Kenny AD. **Endocrinology** 89:1005-13, Oct 71
ANIMAL EXPERIMENTS/ *BIOLOGICAL ASSAY/ BIRDS/ CARCINOMA, blood/ CHICKENS/ DUCKS/ FREEZE DRYING/ GEESE/ GEL FILTRATION/ HYPERPARATHYROIDISM, blood/ HYPOCALCEMIA/ METHODS/ OSTEOPETROSIS, blood/ PIGEONS/ RATS/ SWINE/ *THYROCALCITONIN, blood

Human prolactin: measurement in plasma by in vitro bioassay. Kleinberg DL, et al. **J Clin Invest** 50:1557-68, Aug 71
ACROMEGALY, blood/ ADOLESCENCE/ ADULT/ AGED/ ANIMAL EXPERIMENTS/ *BIOLOGICAL ASSAY/ CHILD/ FEMALE/ HISTOCYTOCHEMISTRY/ HUMAN/ IMMUNE SERUMS, pharmacodynamics/ LACTATION/ LACTATION DISORDERS, blood/ MALE/ MAMMAE, analysis/ *MAMMAE, secretion/ METHODS/ MICE/ MIDDLE AGE/ *ORGAN CULTURE/ PHENOTHIAZINES, adverse effects/ *PROLACTIN, blood/ PROLACTIN, secretion/ SOMATOTROPIN, blood/ SOMATOTROPIN, secretion

Improved parameters of pituitary incubation for the assay of corticotrophin-releasing factor. Seiden G, et al. **Neuroendocrinology** 8:145-53, 1971
ANIMAL EXPERIMENTS/ *BIOLOGICAL ASSAY/ CORTICOSTERONE, blood/ *CORTICOTROPIN, secretion/ *CORTICOTROPIN RELEASING FACTOR, pharmacodynamics/ HYDROGEN-ION CONCENTRATION/ *HYPOTHALAMUS, analysis/ IN VITRO/ ISOTONIC SOLUTIONS/ MALE/ METHODS/ OSMOLAR CONCENTRATION/ *PITUITARY GLAND, secretion/ RATS/ *TISSUE EXTRACTS, pharmacodynamics

Serological characteristics and biological effects of antibodies produced by injection of thyroid materials. Beall GN, et al. **Proc Soc Exp Biol Med** 138:525-30, Nov 71
ANIMAL EXPERIMENTS/ *ANTIBODY FORMATION/ BIOLOGICAL ASSAY/

FREUND'S ADJUVANT/ GAMMA GLOBULIN/ GUINEA PIGS/ HEMAGGLUTINATION TESTS/ HUMAN/ IMMUNIZATION/ IMMUNOELECTROPHORESIS/ IODINE ISOTOPES/ METHODS/ MICROSOMES, immunology/ RABBITS/ STATISTICS/ THYROID GLAND, drug effects/ *THYROID GLAND, immunology/ THYROTROPIN, pharmacodynamics/ *THYROXINE, blood/ THYROXINE, pharmacodynamics/ *THYROXINE-BINDING PROTEIN/ TISSUE EXTRACTS, pharmacodynamics

[Effect of the gastrointestinal hormones on insulin secretion] Kono K.
J Jap Soc Intern Med 60:399-407, 10 May 71 **(Jap)**
ADULT/ ANIMAL EXPERIMENTS/ BIOLOGICAL ASSAY/ BLOOD SUGAR, blood/ DIABETES MELLITUS, blood/ DOGS/ *GASTRIN, pharmacodynamics/ HUMAN/ IMMUNOASSAY/ *INSULIN, secretion/ METHODS/ MIDDLE AGE/ *PANCREOZYMIN, pharmacodynamics/ PORTAL VEIN/ *SECRETIN, pharmacodynamics/ STIMULATION, CHEMICAL

BODY WEIGHT

Effect of water immersion on renin-aldosterone and renal sodium handling in normal man. Epstein M, et al.
J Appl Physiol 31:368-74, Sep 71
ADOLESCENCE/ ADULT/ *ALDOSTERONE, secretion/ ALDOSTERONE, urine/ BLOOD VOLUME/ BODY WEIGHT/ DIET/ DIURESIS/ GLOMERULAR FILTRATION RATE/ HUMAN/ *IMMERSION/ *KIDNEY, physiology/ MALE/ METHODS/ NATRIURESIS/ NECK/ POTASSIUM, blood/ POTASSIUM, metabolism/ POTASSIUM, urine/ REGIONAL BLOOD FLOW/ RENIN, blood/ *RENIN, secretion/ SODIUM, blood/ *SODIUM, metabolism/ THORAX, blood supply/ THORAX, innervation/ TIME FACTORS

CHEMISTRY

Estimation of thyroid hormones by gas-liquid chromatography. Docter R, et al.
Clin Chim Acta 34:297-303, Sep 71
ANHYDRIDES/ CHEMISTRY/ *CHROMATOGRAPHY, GAS/ CHROMATOGRAPHY, GAS, standards/ COMPARATIVE STUDY/ ELECTRONS/ ESTERS/ ESTERS, analysis/ EVALUATION STUDIES/ FLUOROACETATES/ HEAT/ METHODS/ NICKEL/ PROPIONATES/ RADIOISOTOPES/ *THYROXINE, analysis/ TIME FACTORS/ *TRIIODOTHYRONINE, analysis/ *TYROSINE, analysis/ VOLATILIZATION

Gas phase analytical separation techniques applicable to problems in clinical chemistry. Horning EC, et al.
Clin Chim Acta 34:135-44, Sep 71
ADULT/ BENZYL COMPOUNDS/ CHEMISTRY/ CHEMISTRY, CLINICAL/ *CHROMATOGRAPHY, GAS/ CHROMATOGRAPHY, GAS, instrumentation/ COMPUTERS, DIGITAL/ EVALUATION STUDIES/ FEMALE/ HUMAN/ IMIDAZOLES/ KETOSTEROIDS, isolation & purification/ KETOSTEROIDS, urine/ MALE/ MASS SPECTRUM ANALYSIS/ METHODS/ METHYLATION/ NERVOUS SYSTEM DISEASES, urine/ OXIMES/ PREGNANCY/ SILICON/ STEROIDS, isolation & purification/ *STEROIDS, urine/ TEMPERATURE

Evaluation of GLC and other techniques for the estimation of corticosteroids. Norymberski JK.
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The mass spectrometer as a gaschromatographic detector. Brooks CJ, et al. **Clin Chim Acta** 34:145-57, Sep 71
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DIAGNOSIS, LABORATORY

Steroid spectra, pattern recognition and quantitative analysis. Kampen EJ van, et al.
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ELECTROPHORESIS

[Immunological characteristics and clinical application of human placental lactogen (HPL): methodology of radioimmunoassay and its significance as a clinical examination method] Tozyo S, et al.
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[Human placental lactogen--its significance as the "metabolism-regulating hormone" in the maternal body] Tojo S, et al.
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Automated hydrolysis of total estrogens in urine from pregnant women. Muir GG, et al. **Clin Chem** 17:1007-9, Oct 71
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[Simple corrections to eliminate unspecified fluorogenes in steroid determination] Stahl F, et al. **Acta Endocrinol (Kbh)** 68:127-40, Sep 71 (Ger)
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Ultrastructural localization of calcitonin in the parafollicular cells of pig thyroid gland with cytochrome c-labeled antibody fragments. De Grandi PB, et al. **J Cell Biol** 50:446-56, Aug 71
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A facilitated fractionation of stable urinary estrogens before their automated fluorometric assay. Strickler HS, et al. **Clin Chem** 17:1186-90, Dec 71
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Urinary excretion of testosterone and epitestosterone in men, women and children, in health and disease. Pal SB. **Clin Chim Acta** 33:215-27, Jun 71
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GEL FILTRATION

Studies on the analysis and metabolism of the prostaglandins. Anggård E. **Ann NY Acad Sci** 180:200-17, 30 Apr 71 (40 ref.)
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[Immunological characteristics and clinical application of human placental lactogen (HPL): methodology of radioimmunoassay and its significance as a clinical examination method] Tozyo S, et al.
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HISTOCYTOCHEMISTRY

Ultrastructural localization of calcitonin in the parafollicular cells of pig thyroid gland with cytochrome c-labeled antibody fragments. De Grandi PB, et al. **J Cell Biol** 50:446-56, Aug 71
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A light microscopic method for the differentiation of noradrenaline- and adrenaline-producing cells of the rat adrenal medulla. Honoré LH.
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The fine structural localization of norepinephrine- 3 H in the substantia nigra and area postrema of the rat. An autoradiographic study. Sotelo C.
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[Human placental lactogen--its significance as the "metabolism-regulating hormone" in the maternal body] Tojo S, et al.
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MASS SPECTRUM ANALYSIS

Studies on the analysis and metabolism of the prostaglandins. Anggård E.
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A new type of micro-analysis of steroid hormones in biological materials by gas chromatography with flame ionisation and electron capture detection. I. The urinary profile. Maume BF, et al. **J Chromatogr** 58:277-82, 24 Jun 71
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Studies on the analysis and metabolism of the prostaglandins. Anggård E. **Ann NY Acad Sci** 180:200-17, 30 Apr 71 (40 ref.)
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[Human placental lactogen--its significance as the "metabolism-regulating hormone" in the maternal body] Tojo S, et al.
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Serum gonadotropin and steroid patterns during the normal menstrual cycle. Mishell DR Jr, et al.
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*CHROMATOGRAPHY, GAS/
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Thin-layer chromatography and elution of picogram amounts of estradiol. Doerr P.
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Effect of thyrotropin-releasing factor on serum thyroid-stimulating hormone. An approach to distinguishing hypothalamic from pituitary forms of idiopathic hypopituitary dwarfism. Costom BH, et al.
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ENDOCRINOLOGY INDEX

ATIONAL INSTITUTE OF ARTHRITIS AND METABOLIC DISEASES

S. DEPARTMENT OF
EALTH, EDUCATION, AND WELFARE
ublic Health Service
ational Institutes of Health

MARCH-APRIL, 1972
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EXPLANATION OF FORMAT

The period covered by this issue of the bibliography corresponds to the same months of *Index Medicus*. The journal coverage is limited to journals covered by *Index Medicus*, but the *Endocrinology Index* contains additional subject headings that are not included in *Index Medicus*. The *Endocrinology Index* is arranged in seven sections: 1) Table of Contents; 2) Subject Section; 3) Review Section; 4) Method Section; 5) Author Section; 6) Subject Index; and 7) Author Index.

Subject Section

The Subject Section is for the reader interested in recent literature related to certain broad topics and is divided into eight categories (pituitary, thyroid, etc.). The endocrine pancreas has not been included since it is the subject of another recurring bibliography, *Diabetes Literature Index*. Each category has a preconceived hierarchical organization of subject headings. A particular citation may appear more than once if it deals with multiple topics. Each citation to an article contains the full title, first author, and journal reference. If the article is written in a foreign language, the language is indicated. If the citation is to a review article, the number of references is given.

Author Section

The Author Section provides the reader with a list of keywords or index terms assigned to each citation. Each article appears only once. The citations are arranged alphabetically according to first author and are numbered consecutively. These numbers are then in the Author and Subject Indexes to enable the r to identify references with ease. The complete cita (including index terms) are found but only the three authors are listed. Foreign titles appear i original language; these titles have been trans into English in the Subject Section. Following citation are index terms which have been assign describe the contents of the article. Index terms a in capital letters; some of these are accompanie subheadings which appear in lower case letters. A isks (*) identify the index terms under which ar appear in *Index Medicus*.

Subject Index

All of the index terms assigned to the citations ap ing in the bibliography are listed, followed by cit numbers which correspond to the numbers in the A Section. The Subject Index is included for the venience of the reader who wishes to select ar falling in categories of his own conception. Fo ample, one who is interested in protein binding particular hormone could quickly find whether were any articles dealing with this subject by dete ing if there were any citation numbers common t two headings "protein bindin" and the name o specific hormone.

Author Index

The names of all authors are listed, followed by cit numbers which correspond to the numbers in the A Section.

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ENDOCRINOLOGY INDEX

National Institute of Arthritis and Metabolic Diseases

Edited by

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PREFACE

The *Endocrinology Index* is a bimonthly publication of the National Institute of Arthritis and Metabolic Diseases. This selected bibliography which is produced from the National Library of Medicine's Medical Literature Analysis and Retrieval System (MEDLARS), has been initiated to supply those scientists working in the field of endocrinology with a much needed current awareness tool and is intended to help facilitate greater integration of research and clinical efforts in this field.

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PITUITARY

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Pituitary function. Dingman JF. **N Engl J Med** 285:617-9, 9 Sep 71

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Pituitary function. Dingman JF. **N Engl J Med** 285:617-9, 9 Sep 71

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Post partum hypopituitarism in Ceylon. Rajasuriya K. **Ceylon Med J** 16:3-16, Mar 71

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Simplified assessment of pituitary-adrenal reserve. Measurement of serum 11-deoxycortisol and cortisol after metyrapone. Spark RF. **Ann Intern Med** 75:717-23, Nov 71
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[Long-term treatment of hyperthyroidism using antithyroid substances in combination with synthetic thyroid hormones] Eber O.
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Stimulation of mitochondrial protein synthesis and oxygen consumption by thyroxine in vitro without deiodination to triiodothyronine. Primack MP, et al.
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THYROID

IV. Thyroid Antagonists and Inhibitors

CARBIMAZOLE

ADMINISTRATION & DOSAGE

[Neo-Mercazole and pregnancy]
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[Neo-Mercazole and pregnancy]
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THYROID

V. Related Topics

EXOPHTHALMOS

Relationship of thyrotropin to exophthalmos-producing substance. Formation of an exophthalmos-producing substance by pepsin digestion of pituitary glycoproteins containing both thyrotropic and exophthalmogenic activity. Kohn LD, et al. **J Biol Chem** 246:6570-5, Nov 71

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Relationship of thyrotropin to exophthalmos-producing substance. Formation of an exophthalmos-producing substance by pepsin digestion of pituitary glycoproteins containing both thyrotropic and exophthalmogenic activity. Kohn LD, et al. **J Biol Chem** 246:6570-5, Nov 71

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ADRENAL

II. Disorders of the Adrenal Glands

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11. Disorders of the Gonads

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I. Physical and Functional Aspects

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VETERINARY

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TROPHOBLASTIC TUMOR

DIAGNOSIS

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III. Placental Hormones, Precursors, Metabolites and Synthetic Analogs

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PARATHYROID AND BONE

I. Physical and Functional Aspects

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PARATHYROID AND BONE

II. Disorders of the Parathyroid Glands

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[Treatment of parathyroid diseases] Fujita T. **Clin Endocrinol (Tokyo) 19:181-6, Mar 71 (56 ref.) (Jap)**

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Observations on serum alkaline phosphatase electrophoretic patterns on polyacrylamide gel with particular reference to the effects of butanol extraction. Walker AW, et al. **Clin Chim Acta 34:19-29, Aug 71**

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VITAMIN D DEFICIENCY

COMPLICATIONS

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II. Disorders of the Amygdaloid Body

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NEUROENDOCRINOLOGY

III. Neuroendocrine System Hormones, Precursors, Metabolites, and Synthetic Analogs

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[Some characteristics of the biosynthesis and metabolism of adrenal cortex hormones at different periods of childhood (literature review)] Mataradze GD.
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ADRENAL GLAND DISEASES

THERAPY

[Treatment of adrenal gland diseases] Takabe K.
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ADRENAL GLAND HYPERFUNCTION

SURGERY

Surgery of the adrenal glands. Raker JW.
Adv Surg 5:129-43, 1971 (34 ref.)

VETERINARY

Hyperfunction of the adrenal cortex: a review. Lubberink AA, et al.
Aust Vet J 47:504-9, Oct 71 (15 ref.)

ADRENAL GLAND NEOPLASMS

SURGERY

Surgery of the adrenal glands. Raker JW.
Adv Surg 5:129-43, 1971 (34 ref.)

ADRENAL GLANDS

[Some characteristics of the biosynthesis and metabolism of adrenal cortex hormones at different periods of childhood (literature review)] Mataradze GD.
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PHYSIOLOGY

Adrenocortical control of epinephrine synthesis. Pohorecky LA, et al.
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PHYSIOPATHOLOGY

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ADRENAL MEDULLA

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The membrane of the chromaffin granule. Winkler H.
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Chromogranin A dopamine -hydroxylase and secretion from the adrenal medulla. Kirshner N, et al.
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ADRENALECTOMY

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ALDOSTERONE

METABOLISM

[Aldosterone and aldosterone antagonists in surgery] Oelert H.
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[Mechanism of action of male hormones. (Pathologic and therapeutic implications)] Mauvais-Jarvis P.
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METABOLISM

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Metabolic role of vitamins A and D. Wasserman RH, et al. **Annu Rev Biochem** 40:501-32, 1971 (265 ref.)

THERAPEUTIC USE

[Prevention of rickets] Palitzsch D.
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CHROMAFFIN SYSTEM

CYTOLOGY

The membrane of the chromaffin granule. Winkler H.

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The oral contraceptive controversy. Preston SN.
Am J Obstet Gynecol 111:994-1007, 1 Dec 71 (39 ref.)
[Hormonal contraceptives] Martínez-Manautou J, et al.
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[The mechanism of action of oral contraceptives] Manuilova IA.
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CUSHING'S SYNDROME

[Further study of Itsenko-Cushing disease] Kalinin AP, et al. Sov Med 34:90-7, 1971 (26 ref.) (Rus)

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Hyperfunction of the adrenal cortex: a review. Lubberink AA, et al.
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DEHYDROEPIANDROSTERONE

METABOLISM

[Can psoriasis be classified as a DHEA deficiency syndrome?] Holzmann H, et al.
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ENDOCRINE GLANDS

PHYSIOLOGY

Calcitonin and ultimobranchial glands in fishes. Pang PK. J Exp Zool 178:89-99, Sep 71

PHYSIOPATHOLOGY

Humoral regulators in the development and progression of leukemia. Metcalf D.
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[The mast cell as a unicellular endocrine gland] Dorsche HH von, et al.
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Metabolic role of vitamins A and D. Wasserman RH, et al. Annu Rev Biochem 40:501-32, 1971 (265 ref.)

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The "E.M.G." syndrome (Exomphalos, Macroglossia, Gigantism). Irving IM.
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[Protein metabolism and glucocorticoid] Ichii S.
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HYDROCORTISONE

PHARMACODYNAMICS

Effects of cortisol and epinephrine on glial cells in culture. De Vellis J, et al.
UCLA Forum Med Sci 14:23-32, 1971 (7 ref.)

HYPERALDOSTERONISM

COMPLICATIONS

[Hypertension with primary hyperaldosteronism. Physiopathology, diagnosis and therapeutic indications] Fournier A, et al.
Coeur Med Interne 10:571-90, Oct-Dec 71 (74 ref.) (Eng. Abstr.) (Fre)

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DRUG THERAPY

[Therapeutic uses of phosphorus. Review of literature] Godard C, et al.
Therapeutique 47:717-23, Oct 71 (53 ref.) (Fre)

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[Hypercalcemia. 3. Treatment] Henrard JC.
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HYPERPARATHYROIDISM

DIAGNOSIS

[Present status of the clinical aspects and pathology of hyperparathyroidism] Aznar Reig A.
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PATHOLOGY

[Present status of the clinical aspects and pathology of hyperparathyroidism] Aznar Reig A.
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[Treatment of parathyroid diseases] Fujita T.
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HYPOTHALAMUS

DRUG EFFECTS

Hypothalamic mechanism of pyrogen action in the cat and monkey in: pyrogens and fever. Myers RD. **Ciba Found Symp** 131-53, 1971 (43 ref.)

IODINE

NERVE GROWTH FACTOR

ANALYSIS

The biological activities of the subunits of the 7S nerve growth factor protein. Shooter EM, et al. **UCLA Forum Med Sci** 14:269-72, 1971 (8 ref.)

PHARMACODYNAMICS

Two control mechanisms of growth and differentiation of the sympathetic nervous system. Levi-Montalcini R, et al. **UCLA Forum Med Sci** 14:253-68, 1971 (21 ref.)

OVARIAN NEOPLASMS

CLASSIFICATION

Recent progress in ovarian cancer. Scully RE. **Hum Pathol** 1:73-98, Mar 70 (63 ref.)
Ovarian tumors in childhood and adolescence. Benson RC. **Postgrad Med** 50:230-5, Nov 71

PATHOLOGY

Recent progress in ovarian cancer. Scully RE. **Hum Pathol** 1:73-98, Mar 70 (63 ref.)

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Ovarian tumors in childhood and adolescence. Benson RC. **Postgrad Med** 50:230-5, Nov 71

OVULATION

[The role of after-mid-term conceptions in the etiology of abnormal pregnancies] Iffy L, et al. **Orv Hetil** 112:2571-5, 24 Oct 71 (54 ref.) **(Hun)**

PARATHYROID HORMONE

PHYSIOLOGY

Parathyroid hormone effects on mineral absorption and excretion. **Nutr Rev** 29:257-60, Nov 71

PINEAL BODY

ENZYMOLOGY

Neural and hormonal regulation of pineal adenyl cyclase activity. Weiss B, et al. **Adv Biochem Psychopharmacol** 3:217-39, 1970 (93 ref.)
On the regulation of adenyl cyclase activity in the rat pineal gland. Weiss B. **Ann NY Acad Sci** 185:507-19, 30 Dec 71 (63 ref.)

METABOLISM

On the regulation of adenyl cyclase activity in the rat pineal gland. Weiss B. **Ann NY Acad Sci** 185:507-19, 30 Dec 71 (63 ref.)

PITUITARY DISEASES

DIAGNOSIS

Pituitary function. Dingman JF. **N Engl J Med** 285:617-9, 9 Sep 71

THERAPY

[Treatment of anterior and posterior pituitary diseases] Irie M. **Clin Endocrinol (Tokyo)** 19:171-4, Mar 71 (55 ref.) **(Jap)**

PITUITARY GLAND

[Some characteristics of the biosynthesis and metabolism of adrenal cortex hormones at different periods of childhood (literature review)] Mataradze GD.
Pituitary function. Dingman JF. **N Engl J Med** 285:617-9, 9 Sep 71

PITUITARY GLAND, POSTERIOR

[Treatment of anterior and posterior pituitary diseases] Irie M. **Clin Endocrinol (Tokyo)** 19:171-4, Mar 71 (55 ref.) **(Jap)**

PLACENTA

Does malnutrition cause permanent mental retardation in human beings? Frisch RE. **Psychiatr Neurol Neurochir** 74:463-79, Nov-Dec 71 (74 ref.)

PATHOLOGY

[Chronopathology of the placenta. General pathological aspects of organ maturation] Becker V. **Dtsch Med Wochenschr** 96:1845-9, 19 Nov 71 (15 ref.) **(Ger)**

PROGESTATIONAL HORMONES

[Hormonal contraceptives] Martínez-Manautou J, et al. **Gac Med Mex** 100:993-1026, Oct 70 (186 ref.) **(Spa)**

PHARMACODYNAMICS

[The mechanism of action of oral contraceptives] Manuilova IA. **Akush Ginekol (Mosk)** 47:3-8, Feb 71 (52 ref.) **(Rus)**

PROLACTIN

[Current status of our knowledge on prolactin] Moratō Manaro J. **Rev Argent Endocrinol Metab** 16:205-14, Dec 70 (48 ref.) **(Spa)**

SECRETION

Endocrine secretion in vitro: prolactin. Rivera EM, et al. **In Vitro** 5:28-39, 1970 (102 ref.)

RENIN

[Immunological activity of renin and angiotensin] Markov KhM, et al. **Urol Nefrol (Mosk)** 36:62-6, Jan-Feb 71 (60 ref.) **(Rus)**

SECRETION

The renin-angiotensin system and hypertension. Gross F. **Ann Intern Med** 75:777-87, Nov 71 (47 ref.)

RICKETS

PREVENTION & CONTROL

[Prevention of rickets] Palitzsch D. **Munch Med Wochenschr** 113:1516-9, 5 Nov 71 (29 ref.) **(Ger)**

SEX CHROMOSOME ABNORMALITIES

Sex chromosome abnormalities and the gynaecologist. Dewhurst CJ. **J Obstet Gynaecol Br Commonw** 78:1058-76, Dec 71 (41 ref.)

SOMATOTROPIN

BLOOD

The pathogenesis of diabetic angiopathy and growth hormone. Lundbaek K, et al.
Dan Med Bull 18:1-7, Feb 71 (40 ref.)

PHYSIOLOGY

Regulation of growth hormone secretion by growth hormone. **Nutr Rev** 29:248-50, Nov 71

SECRETION

Regulation of growth hormone secretion by growth hormone. **Nutr Rev** 29:248-50, Nov 71

TESTIS

Tissue culture of male mammalian gonads. Steinberger A, et al. **In Vitro** 5:17-27, 1970 (34 ref.)

THYROCALCITONIN

PHARMACODYNAMICS

Effect of calcitonin on bone resorption induced by excess vitamins A and D.
Nutr Rev 29:150-2, Jun 71 (6 ref.)

PHYSIOLOGY

Calcitonin and ultimobranchial glands in fishes. Pang PK. **J Exp Zool** 178:89-99, Sep 71

THYROGLOBULIN

[Structure of thyroglobulin and metabolic disorders involved in its biosynthesis] Koshitomo Y, et al. **Clin Endocrinol (Tokyo)** 19:219-23, Mar 71 (55 ref.) **(Jap)**

THYROID GLAND

PHYSIOLOGY

Calcitonin and ultimobranchial glands in fishes. Pang PK. **J Exp Zool** 178:89-99, Sep 71

THYROID HORMONES

BLOOD

Chemical measurements of serum hormonal iodine. Sunderman FW Jr.
CRC Crit Rev Clin Lab Sci 1:551-64, Dec 70 (98 ref.)

THYROTROPIN

[The thyrotropic hormone] Vigneri R, et al. **Policlinico [Med]** 77:273-304, Nov-Dec 70 (235 ref.) (Eng. Abstr.) **(Ita)**

SECRETION

Control of thyrotropin secretion in man. Hershman JM, et al. **N Engl J Med** 285:997-1006, 28 Oct 71 (89 ref.)

THYROXINE

PHYSIOLOGY

The thyroid as a time clock in the developing nervous system. Hamburgh M, et al.
UCLA Forum Med Sci 14:321-8, 1971 (17 ref.)

VITAMIN D

Metabolic role of vitamins A and D. Wasserman RH, et al. **Annu Rev Biochem** 40:501-32, 1971 (265 ref.)

ADVERSE EFFECTS

Effect of calcitonin on bone resorption induced by excess vitamins A and D.
Nutr Rev 29:150-2, Jun 71 (6 ref.)

METHOD SECTION

This section is meant to be an alerting device for articles which describe: 1) new methods or techniques, 2) modifications of existing methods or 3) comparisons of different methods. For methods on a particular substance or for a specific type of method, see the subject index or the subject section (particularly the subheadings; analysis, blood, cerebrospinal fluid, chemical synthesis, isolation & purification, and urine).

ASCORBIC ACID

ANALYSIS

[Determination of luteinizing hormone by Parlow's method in different seasons of the year] Kuznetsova LV. **Lab Delo** 3:137-41, 1971 (Rus)
ANIMAL EXPERIMENTS/ *ASCORBIC ACID, analysis/ FEMALE/ *LH, analysis/ METHODS/ *OVARY, analysis/ RATS/ SEASONS

AUTOANALYSIS

Tape-controlled gradient elution chromatography system for steroid analysis. Johnson DF, et al. **Anal Chem** 43:1712-5, Oct 71
AUTOANALYSIS/ *CHROMATOGRAPHY/ *GLUCOCORTICOIDS, analysis/ *17-KETOSTEROIDS, analysis/ METHODS

Measurement of iodine concentration in biological material. Harden RM, et al. **Clin Chem** 17:1020-3, Oct 71
ANIMAL EXPERIMENTS/ ANIMAL FEED, analysis/ AUTOANALYSIS/ CHROMATOGRAPHY, PAPER/ FECES, analysis/ HEAT/ HUMAN/ *IODINE, analysis/ IODINE, metabolism/ *IODINE ISOTOPES, analysis/ IODINE ISOTOPES, DIAGNOSTIC, analysis/ MASS SCREENING/ MATHEMATICS/ METHODS/ OXIDATION-REDUCTION/ OXYGEN/ PAPER/ RATS/ SODIUM, analysis/ THYROID GLAND, analysis/ THYROID GLAND, metabolism/ THYROID GLAND FUNCTION TESTS/ TIME FACTORS

An automated method for urinary "oestriol" determination in pregnant and non-pregnant subjects. Barnard WP, et al. **Clin Chim Acta** 34:377-86, Oct 71
ALBUMINURIA/ ANDROGENS, pharmacodynamics/ AUTOANALYSIS/ COMPARATIVE STUDY/ CREATININE, urine/ *ESTRIOL, urine/ EVALUATION STUDIES/ FEMALE/ FLUORESCENCE/ FLUOROMETRY/ GLYCOSURIA/ HUMAN/ HYDROLYSIS/ MENSTRUATION/ METHODS/ PREGNANCY/ PROGESTATIONAL HORMONES, pharmacodynamics/ SPECTRUM ANALYSIS/ THYMOL, pharmacodynamics/ URINE, drug effects

The automated analysis of urinary oestrogens during pregnancy. Campbell DG, et al. **Clin Chim Acta** 32:153-7, Apr 71
AUTOANALYSIS/ AUTOANALYSIS, instrumentation/ *ESTROGENS, urine/ FEMALE/ FLUOROMETRY/ GLUCOSE/ HUMAN/ HYDROQUINONES/ INDICATORS AND REAGENTS/ METHODS/ NITROPHENOLS/ PREGNANCY

A rapid radioimmunoassay of human chorionic somatomammotropin (HCS or HPL) using dioxan. Haour F. **Horm Metab Res** 3:131-2, Mar 71
ANTIGEN-ANTIBODY COMPLEX/ AUTOANALYSIS/ BUFFERS/ CATTLE/ CHARCOAL/ COMPARATIVE STUDY/ DEXTRAN/ DIOXINS/ FEMALE/ GONADOTROPINS, analysis/ *GONADOTROPINS, CHORIONIC, blood/ HUMAN/ IODINE ISOTOPES/ METHODS/ *PLACENTAL LACTOGEN, blood/ PRECIPITATION/ PREGNANCY/ RABBITS/ RADIOIMMUNOASSAY/ SERUM ALBUMIN, BOVINE/ SOLUBILITY/ TIME FACTORS

Quantitative analysis of trace amounts of estrogenic steroids in pregnancy urine by column liquid-liquid chromatography with ultraviolet detection. Huber JF, et al. **J Chromatogr** 62:79-91, 28 Oct 71
AUTOANALYSIS/ CHROMATOGRAPHY, ION EXCHANGE/ ESTRADIOL, urine/ ESTRIOL, urine/ *ESTROGENS, urine/ ESTRONE, urine/ FEMALE/ HUMAN/ MATHEMATICS/ METHODS/ PREGNANCY/ *PREGNANCY/ SPECTROPHOTOMETRY/ ULTRAVIOLET RAYS

Estimation of total estrogens in early pregnancy by column chromatography. Strickler HS, et al. **Steroids** 18:203-18, Aug 71
ALCOHOLS, urine/ ANDROSTERONE, analysis/ AUTOANALYSIS/ CHOLESTEROL, urine/ CHROMATOGRAPHY/ CHROMATOGRAPHY, GAS/ COMPARATIVE STUDY/ ESTRIOL, analysis/ *ESTROGENS, urine/ FEMALE/ FLUOROMETRY/ GEL FILTRATION/ HUMAN/ HYDROCHLORIC ACID/ HYDROLYSIS/ 17-HYDROXYCORTICOSTEROIDS, urine/ 17-KETOSTEROIDS, urine/ KETOSTEROIDS, urine/ METHODS/ PREGNANCY/ PREGNANEDIOL, urine/ PREGNANES, urine/ PREGNANETRIOL, urine/ SODIUM, analysis/ SODIUM HYDROXIDE/ SULFURIC ACIDS, analysis/ TIME FACTORS/ TOLUENE

INSTRUMENTATION

The automated analysis of urinary oestrogens during pregnancy. Campbell DG, et al. **Clin Chim Acta** 32:153-7, Apr 71
AUTOANALYSIS/ AUTOANALYSIS, instrumentation/ *ESTROGENS, urine/ FEMALE/ FLUOROMETRY/ GLUCOSE/ HUMAN/ HYDROQUINONES/ INDICATORS AND REAGENTS/ METHODS/ NITROPHENOLS/ PREGNANCY

A simple automated method for the measurement of oestrogens in the urine of pregnant women. Hainsworth IR, et al. **Clin Chim Acta** 35:201-8, Nov 71
ALBUMINS/ AUTOANALYSIS, instrumentation/ *ESTROGENS, urine/ FEMALE/ FLUOROMETRY/ GLUCOSE/ HUMAN/ HYDROLYSIS/ MALE/ METHODS/ PREGNANCY

A semiautomatic method for immunoassay of insulin and human growth hormone. Bottermann P, et al. **Horm Metab Res** 3:55-6, Jan 71
AUTOANALYSIS, instrumentation/ FILTRATION/ HUMAN/ *INSULIN, analysis/ METHODS/ PRECIPITATION/ RADIOIMMUNOASSAY/ *SOMATOTROPIN, analysis/ TIME FACTORS

BIOLOGICAL ASSAY

Methods of assay of cyclic nucleotides. Breckenridge BM. **Ann NY Acad Sci** 185:10-7, 30 Dec 71 (46 ref.)
*ADENOSINE CYCLIC 3',5' MONOPHOSPHATE, analysis/ ADENOSINE TRIPHOSPHATE, analysis/ *BIOLOGICAL ASSAY/ ENZYME ACTIVATION/ GLUCOSYLTRANSFERASES, metabolism/ KINETICS/ LIVER, enzymology/ METHODS/ MUSCLES, enzymology/ PHOSPHATASES, metabolism/ PHOSPHOTRANSFERASES, metabolism/ PROTEIN BINDING/ RADIOIMMUNOASSAY/ REVIEW

A simple and sensitive saturation assay method for the measurement of adenosine 3':5'-cyclic monophosphate. Brown BL, et al.
Biochem J 121:561-2, Feb 71
*ADENOSINE CYCLIC 3',5' MONOPHOSPHATE, analysis/ ADRENAL GLANDS/ ANIMAL EXPERIMENTS/ BIOLOGICAL ASSAY/ CATTLE/ LIVER/ METHODS/ NUCLEOTIDES, analysis/ PROTEIN BINDING/ TISSUE EXTRACTS/ TRITIUM

A sensitive bioassay method for ACTH using isolated rat adrenal cells. Kitabchi AE, et al.
Horm Metab Res 3:133-4, Mar 71
ADRENAL GLANDS, cytology/ ADRENAL GLANDS, drug effects/ *ADRENAL GLANDS, metabolism/ ANIMAL EXPERIMENTS/ BIOLOGICAL ASSAY/ CORTICOSTERONE, biosynthesis/ *CORTICOTROPIN, blood/ FLUOROMETRY/ IN VITRO/ METHODS/ METYRAPONE, pharmacodynamics/ MICROCHEMISTRY/ RATS/ STIMULATION, CHEMICAL

[Isolation and some properties of luteinizine hormones from pituitary gland of bulls] Assonova NK, et al.
Biokhimiia 36:562-7, May-Jun 71 (Eng. Abstr.) **(Rus)**
AMINO ACID SEQUENCE/ AMINO ACIDS, analysis/ ANIMAL EXPERIMENTS/ BIOLOGICAL ASSAY/ CATTLE/ CHEMISTRY/ ENGLISH ABSTRACT/ HYDROLYSIS/ *LH/ LH, analysis/ LH, isolation & purification/ MALE/ METHODS/ MOLECULAR WEIGHT/ PEPTIDES, analysis/ PHENYLALANINE, analysis/ *PITUITARY GLAND, analysis/ TRYPSIN

CENTRIFUGATION

Plasma cortisol concentrations in newborn calves. Eberhart RJ, et al. **Am J Vet Res** 32:1921-7, Dec 71
ANIMAL EXPERIMENTS/ *ANIMALS, NEWBORN/ *CATTLE, metabolism/ CENTRIFUGATION/ CHROMATOGRAPHY, THIN LAYER/ EOSINOPHILS/ FEMALE/ FLUOROMETRY/ *HYDROCORTISONE, blood/ LEUKOCYTE COUNT/ LYMPHOCYTES/ MALE/ METHODS/ NEUTROPHILS/ PREGNANCY/ PUERPERIUM/ TIME FACTORS/ TRITIUM

The effect of polystyrene beads on cyclic 3',5'-adenosine monophosphate concentration in leukocytes. Manganiello V, et al.
J Clin Invest 50:2741-4, Dec 71
*ADENOSINE CYCLIC 3',5' MONOPHOSPHATE, blood/ BLOOD PRESERVATION/ CELLS, CULTURED/ CENTRIFUGATION/ CITRATES/ GLUCOSE/ HEPARIN/ HUMAN/ IN VITRO/ LEUKOCYTE COUNT/ *LEUKOCYTES, metabolism/ MACROPHAGES, metabolism/ METHODS/ PHAGOCYTOSIS/ *POLYSTYRENES/ RABBITS/ TIME FACTORS

CHEMISTRY

A method for the preparation of radioactive FSH with preservation of biologic activity. Vaitukaitis JL, et al.
Endocrinology 89:1356-60, Dec 71
BORON COMPOUNDS/ CHEMISTRY/ CLOSTRIDIUM PERFRINGENS, enzymology/ ELECTROPHORESIS, DISK/ *FSH/ FSH, analysis/ FSH, blood/ HUMAN/ ISOTOPE LABELING/ KIDNEY, analysis/ LIVER, analysis/ METHODS/ NEURAMINIC ACIDS, analysis/ NEURAMINIDASE/ OVARY, analysis/ PSEUDOPREGNANCY/ RADIOIMMUNOASSAY/ *TRITIUM

Chromatographic mobilities and partition coefficients of synthetic corticosteroid glucosiduronates. Mattox VR, et al. **Steroids** 18:147-60, Aug 71
ACETIC ACIDS/ *ADRENAL CORTEX HORMONES, isolation & purification/ ALCOHOL, METHYL/ AMMONIUM COMPOUNDS/ CHEMISTRY/ CHROMATOGRAPHY, PAPER/ CORTICOSTERONE/ CORTISONE, isolation & purification/ DESOXYCORTICOSTERONE, isolation & purification/ DRUG STABILITY/ FLUOROMETRY/ *GLUCURONATES, isolation & purification/ GLUCURONIDASE/ HYDROCORTISONE, isolation & purification/ HYDROXIDES/ METHODS/ PREGNANES, isolation & purification/ SEMICARBAZIDES/ SODIUM HYDROXIDE/ SOLUBILITY/ SOLVENTS

[Occurrence of electron-opaque products of the chromaffin reaction] Feuerstein H, et al.
Acta Histochem (Jena) 40:73-9, 1971 (Eng. Abstr.) **(Ger)**
ADRENAL GLANDS/ ADRENOCHROME, analysis/ ANIMAL EXPERIMENTS/ *CATECHOLAMINES, analysis/ CHEMISTRY/ *CHROMAFFIN SYSTEM, analysis/ *CHROMIUM, analysis/ ENGLISH ABSTRACT/ EPINEPHRINE, analysis/ GUINEA PIGS/ MELANIN, analysis/ METHODS/ OXIDATION-REDUCTION/ POTASSIUM/ SODIUM/ TIME FACTORS

[Isolation and some properties of luteinizine hormones from pituitary gland of bulls] Assonova NK, et al.
Biokhimiia 36:562-7, May-Jun 71 (Eng. Abstr.) **(Rus)**
AMINO ACID SEQUENCE/ AMINO ACIDS, analysis/ ANIMAL EXPERIMENTS/ BIOLOGICAL ASSAY/ CATTLE/ CHEMISTRY/ ENGLISH ABSTRACT/ HYDROLYSIS/ *LH/ LH, analysis/ LH, isolation & purification/ MALE/ METHODS/ MOLECULAR WEIGHT/ PEPTIDES, analysis/ PHENYLALANINE, analysis/ *PITUITARY GLAND, analysis/ TRYPSIN

CHEMISTRY, ANALYTICAL

[Analysis of various chemico-pharmaceutical sulfur preparations by in oxygen burning] Kofman MD, et al.
Farm Zh 26:52-6, 1971 (Eng. Abstr.) **(Ukr)**
CHEMISTRY, ANALYTICAL/ *DISULFIRAM, analysis/ ENGLISH ABSTRACT/ *FUROSEMIDE, analysis/ *METHIONINE, analysis/ METHODS/ OXYGEN/ *SPIRONOLACTONE, analysis

CHEMISTRY, CLINICAL

Some aspects of steroid analysis in the clinical chemistry laboratory with special reference to the role of gas-liquid chromatography. Molen HJ van der, et al. **Clin Chim Acta** 34:169-85, Sep 71
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Estimation of total estrogens in early pregnancy by column chromatography. Strickler HS, et al. **Steroids** 18:203-18, Aug 71
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An automated method for urinary "oestriol" determination in pregnant and non-pregnant subjects. Barnard WP, et al. **Clin Chim Acta** 34:377-86, Oct 71
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An automated method for urinary "oestriol" determination in pregnant and non-pregnant subjects. Barnard WP, et al. **Clin Chim Acta** 34:377-86, Oct 71
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Estimation of total estrogens in early pregnancy by column chromatography. Strickler HS, et al. **Steroids** 18:203-18, Aug 71
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Serum thyroxine determination by saturation analysis: a new method and statistical approach. Burger A, et al. **Acta Endocrinol (Kbh)** 68:431-44, Nov 71
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Studies of the secretion of monkey placental lactogen. Belanger C, et al. **J Clin Invest** 50:2660-7, Dec 71
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Separation of free and bound steroid in the competitive protein binding assay for testosterone: accuracy and reproducibility. De la Pena A, et al. **Steroids** 18:195-201, Aug 71
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Estimation of total estrogens in early pregnancy by column chromatography. Strickler HS, et al. **Steroids** 18:203-18, Aug 71
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Isoelectric focusing of long-acting thyroid stimulator (LATS) containing IgG. Schleusener H, et al. **Horm Metab Res** 3:221-2, May 71
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Effect of derivative formation on the mass spectra of the estrogens. Okerholm RA, et al. **Anal Biochem** 44:1-11, Nov 71
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MICROCHEMISTRY

Serum thyroxine determination by saturation analysis: a new method and statistical approach. Burger A, et al.
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Fluorometric determination of cholesterol and cholesteryl ester in tissue on the nanogram level. Bondjers G, et al. **Anal Biochem** 42:363-71, Aug 71
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A simple method for the fluorimetric estimation of testosterone in human male plasma. Eechaute W, et al.
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*BONE AND BONES, metabolism/ CALCIUM, urine/ FECES, analysis/ HUMAN/ IRON, analysis/ MALE/ *MINERALS, metabolism/ OXYGEN CONSUMPTION/ *SPACE FLIGHT

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ADOLESCENCE/ CASE REPORT/ DEXAMETHASONE, therapeutic use/ FEMALE/ HUMAN/ 17-KETOSTEROIDS, urine/ LH, blood/ OVARY, pathology/ STEIN-LEVENTHAL SYNDROME, drug therapy/ STEIN-LEVENTHAL SYNDROME, metabolism/ *STEIN-LEVENTHAL SYNDROME, pathology/ STEIN-LEVENTHAL SYNDROME, surgery/ TESTOSTERONE, blood

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Tidsskr Nor Laegeforen

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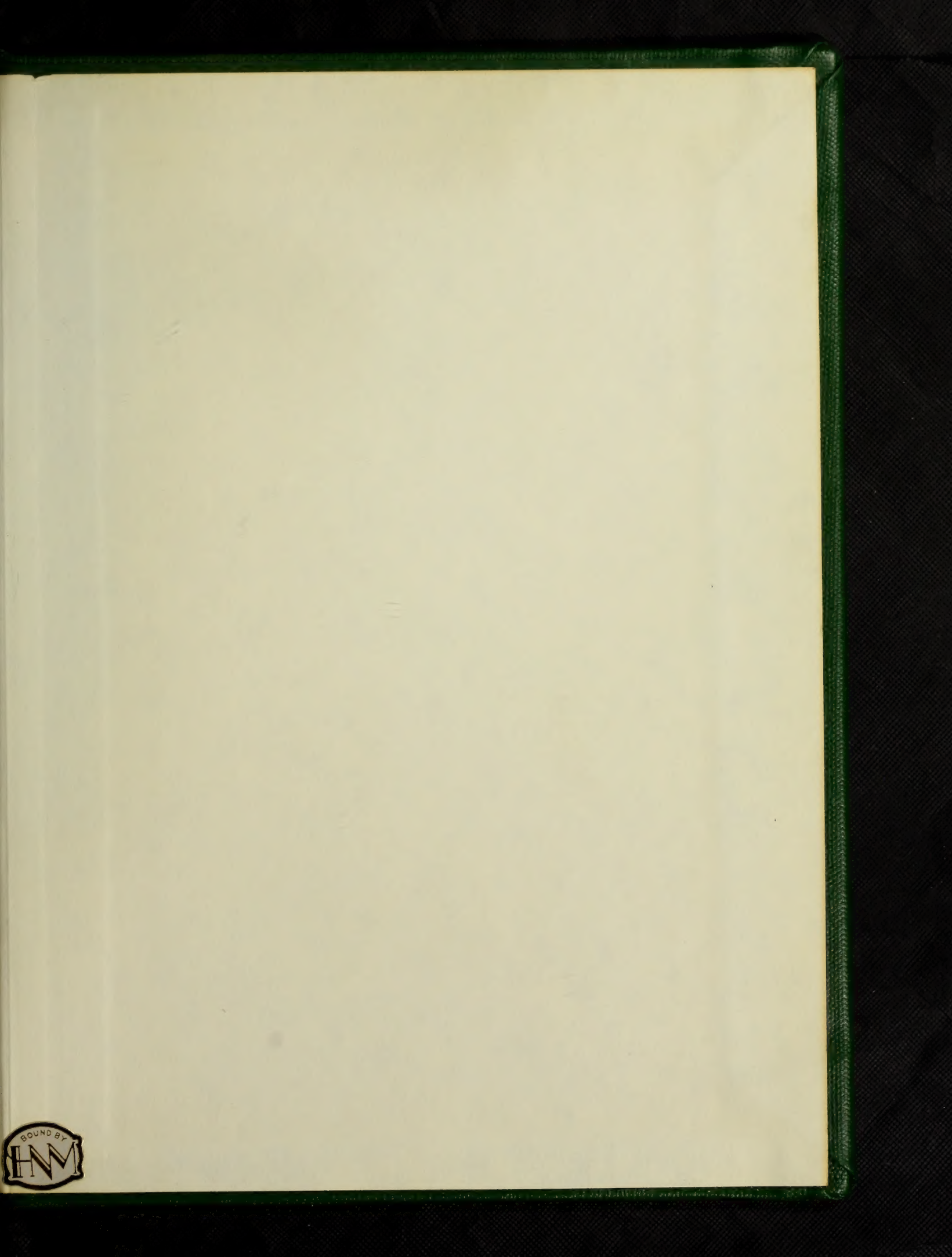
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